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Apple and Pear Publicity

Active Campaign in Progress to Increase Fruit Consumption in Australia.

An active campaign to increase the consumption of Apples and Pears in An active campaign to increase the consumption of Apples and Pears in Australia is now in full swing. It was promoted by the Australian Apple and Pear Export Council, and, recognising its value to the industry, generous assistance was forthcoming from the Federal Government and the State Governments of New South Wales, Victoria, Tasmania and South Australia. Growers Associations in Victoria, South Australia and Queensland also got well behind the Campaign.

politan press of Sydney, Melbourne, Brisbane and Adelaide; radio an-nouncements are being given regu-larly; other propaganda includes the production of a handsome recipe book, two health booklets, poster for Railway Stations in the several States, window streamers and stickers and showcards and leaflets for fruiterers.

In addition, radio talks on Apples are being given over National and "B" class stations. State committees are at work in

Sydney, Melbourne, Brisbane, and Adelaide.

Adelaide.

In Victoria some excellent work was done by officers of the Southern Fruitgrowers' Association in providing Apples for free distribution to schools, kindergartens, creches and the Children's Hospital. This brought a wealth of press publicity, particularly charming photos of children enjoying Apples. Fifty-three schools, 11 creches and 4 kindergartens were thus served; over 100,000 Apples were distributed and a health talk on Apples was delivered to 50,000 school children. Another valued activity was the co-operation valued activity was the co-operation with the Health Week authorities. Apples (and, in fact, other fruits) are specially mentioned in the Health Week Booklet of which 50,000 copies were distributed. City shops and de-

Attractive advertisements appeal- Australia, £350; Victorian Cool ing to various sections of the community are appearing in the metro- pected); South Australian Fruit Marketing Association, £150; Committee of Direction of Fruit Marketing, £50; Victorian Fruit Marketing Association, £50; a total so far of £4,563, to which will be added a similar sum from the Federal Government, making a total of £9,126.

An Important Statement.
One of the most important statements in connection with Apple consumption was recently contributed by Dr. Cecil D. Hearman, Lecturer in Preventive Dentistry at the Melbourne University. Dr. Hearman writes as follows:-

THE EATING OF AN APPLE after each meal provides the atter each meal provides the necessary mechanical action for cleaning the teeth. The munching of the Apple cleanses the surface of the teeth from the sticky carbohydrate debris which would otherwise remain, the fermentation of which causes dental decay.

The eating of an Apple at the

of which causes dental decay.

The eating of an Apple at the close of every meal is highly important as the mastication creates a copious flow of saliva—which is so necessary for the digestion of the cooked starchy portion of our food.

The eating of Apples is of the utmost importance because the mastication provides the teeth with the functional stimulus which is essential for the health of the teeth and the

tional stimulus which is essential for the health of the teeth and the full development of the jaws, the dental arches and the nasal passages.

were distributed. City shops and department stores generously provided space in their windows for displays of Apples and Pears. This attracted much favorable attention and secured favorable press notices.

Health and nutrition authorities in the several States are co-operating, as also are Housewives' Associations, Mothers' Clubs, Parents' and Citizens' Associations, Womens' Organisations, Baby Health Centres, etc., etc.

As regards finance, the Federal Government promised £1 for £1 up to £5,000, with contributions from State Governments and donations from growers' associations and others. So far contributions have been made by State Governments as follows:—Tasmania, £1,000; Victoria, £1,000; New South Wales, £963; South

We need roughage or ballast in our diet. Soft foods are wholly insuffi-cient. An Apple at the close of each cient. meal supplies the needed roughage. It is the lack of this quality which is It is the lack of this quality which is causing such a tremendous lot of sluggishness in the bowel tract. Sluggishness of bowel movement causes an accumulation of waste material in the human system. The poisons which are set up in this waste material are held by some to be responsible for many of the be responsible for many of the chronic diseases which affect people in middle life—rheumatism, indigestion, rheumatoid arthritis, constipa-

Sir William Arbuthnot Lane, the eminent London surgeon, recently stated:—"There is but one disease—defective drainage of the human

On the other hand, the most effec-On the other hand, the most effective drainage of the system is possible by including fruit in our diet at every meal. Apples provide the indigestible residue which gives the muscles of the bowels something on which to act. This is necessary for the forcing of the waste material through the bowel passages.

Fruitgrowers would themselves do well to follow this advice of eating an Apple after every meal and teaching their children to do likewise. Growers and all interested are urged to absorb the information given by Dr. Hearman, and to bring forward this item every time in conversation with country and city friends. This personal propaganda is really very effective.

It may be said in conclusion that earnest efforts are being made to serve the industry in this publicity campaign in the conducting of which the health of the nation will be improved.

In one county alone (Lassen, in California), the U.S. Forest Service Department has planted over 1,000,000 trees in fire-swept areas. Transplanting of nursery trees to damaged areas will be continued in about this num-

Inability to secure the 8,000 pickers needed for the Carolina Strawberry crop in May and June was predicted, at time of the report, as prophesying a severe loss to growers.

Answers to Correspondence

Tung Oil.

A correspondent in Western Australia asked for particulars re Tung Oil Tree, market value of the oil, and general description.

In reply we have to state that the New South Wales Department of Agriculture advises that they are experimenting to test the suitability of the tree to various parts of Australia. Until recently China was the only country growing the tree commercially. There are no large commercial groves of Tung Oil yet in full production in Australia, therefore no figures can be given.

Tung Oil is an important constituent of waterproof varnishes and paint liquids, it is also used as an ingredi-ent for dressing leather and for floor

A hot Summer and a fairly cold Winter seems to suit the plant best, but a rainfall of not less than 28 or 30 inches is also required. The Winter needs to be sufficiently cold to

give the plant a period of rest, and it does not appear to do well where frosts are heavy. Most classes of soil suit the tree, but it prefers a slightly acid soil and does not like lime. A deep soil of a sandy or light nature with organic matter is ideal.

Preparation of the land should be similar to that for planting any farm crop. Trees should be planted 116 the acre, in rows 30 feet apart with 12½ feet between the rows. When the trees become arounded every other 12½ feet between the rows. When the trees become crowded, every other tree can be cut out. Vigorous one year-old trees are best for transplanting. Transplanting should be don while trees are dormant (June, July August), care being taken that sufficient moisture is present.

Do not plant too deeply. A fair crop should be produced the fifth year and the tenth year full bearing should be reached, if the trees have been cared for sufficiently well.

A fair yield is considered to be 5 A fair yield is considered to be 50 to 70 pounds of nuts to the tree—58 trees to the acre. In Australian experiments, the kernels yielded from 35 to 50 per cent. oil. The fruit grows either singly or in clusters, and is from two to three inches in diameter—five or more seeds in each fruit, surrounded by an outer husk; 340 to 350 nuts go to a bushel of 30% pounds.

The fruit falls to the ground and may be left there until convenient to gather them and then stored in a dry place. The tree lives about 25 to 30 years and is not susceptible to insect pests or disease. The Department does not recommend the planting of large commercial areas at this stage, where there is any doubt as to the suitability of the soil and eli-

PERSONAL.

We are pleased to be able to report that Mr. T. E. Butler, who is Secretary of several cool stores and fruit tary of several cool stores and fruit organisations, and who has recently been very ill, is now on the road to recovery. At the moment, Mr. Butler is recuperating in Northern Queensland and expects to return to his office towards the end of August.

Mr. A. E. Gibson, Director of Agriculture, Queensland, died on July 8 after a long illness. Born in Victoria, graduating from Dookie Agricultural College, he joined the Queensland Department of Agriculture in 1911 as a foreman at the Gatton Agricultural College

Captain A. W. Pearse, who has represented The Port of London presented The Port of London Authority, in Australia and New Zealand, for the past 18 years, will retire, for age reasons, on June 30, 1938. Mr. T. R. Toovey, Chief Assistant to the general manager, Sir David Owen, will arrive at the end of the current year, and will take over control at the end of next June. Mr. Toovey paid a visit to Australia a few years ago.



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Vinter Work in the Orchard

Spraying, Pollination, Pruning

By J. L. Provan, B.Ag.Sc. (Horticultural Research Officer, Department of Agriculture, Vic.)

The following is a resume of a Radio Talk over Station 3AR by Mr. J. L. Provan.

a particularly severe one, our friends have joined the nudist ony. These friends are fruit trees. by have discarded their foliage are taking a well-earned rest. corchardist can now read the story the past season, for he can see arly the amount and condition of growth the trees have made.

With the usual hope he makes his st forecast of the approaching op. Of course, he realises that my factors from now until the tharvest will modify any estimate he makes, but he will be able to least know how the season will mmence.

Pruning is now in full swing, and

VEN although it is Winter, and conditions which are beyond the root zone and be absorbed and a particularly severe one, our grower's control, except that the provision of efficient breakwinds will reduce the losses caused by these conditions. Insects will be more active carriers of pollen in a sheltered orchard than in an exposed one, and growers who have not provided such shelter should seriously consider planting one this Winter. Pinus insignis, Cypress, Blue Gum and Sugar Gums have been extensively used for shelter belts and these trees can be shelter belts and these trees can be planted now. The pollen of fruit trees is carried only very short distances by wind, and one or more hives of bees per acre will be found useful in assisting pollination.

Pollination.

Drainage.

The Winter months usually provide a good opportunity for testing the efficiency of the drainage system of the orchard.

Surface drains, formed by "ploughing-on," are sufficient in some oring-on," are sufficient in some or-chards, while others require the underground tile system. An inspec-tion of the outfall of the tile drains after heavy rain will show those which are not functioning properly.

Another useful method of removing excessive moisture from the soil is by the use of a cover crop. A good cover crop either sown or self-sown Pruning is now in full swing, and ch grower is paying attention to e number of blossom buds in each fur and the number and length of terals he will leave for fruit or to rm into fruiting laterals next year. mmon expressions amongst orardists at this time of the year existing at this time of the year existing. There is a fine show of buds r next year"; or perhaps "The mathan buds are light." These rms refer particularly to the prortion of large, well-filled, rounded results of the resential factor in setting to resent an abundant supply of viable to the transpire large quantities of water. This fact has been utilised in some fruit-growing districts to produce earlier and better colored fruit by reducing the soil moisture available to the trees in the late Autumn. There is the danger, of course, that in a dry Spring the cover crop may compete seriously with the trees for the soil moisture, and so reduce the setting of the crop. When this is likely to occur, an

Constant cultivation is important at this time of the year owing to existing dry conditions.



lossom buds compared with the during the pruning season. A useumber of smaller and pointed buds ful suggestion in this regard is to
choose varieties which will pollinate
the early, mid-season and late blooms
of the main crop.

If adequate pollination was pro-

Learning from the Past.

He perhaps recalls that a year ago was making similar forecasts of he crop just harvested, and reflects n those factors which prevented him rom obtaining the anticipated yield. The important aspect of this posi-ion is to find out what steps have een taken to consider these various actors. If the crop didn't reach exectations, where did the losses certations, where did the losses ccur, what were the causes, and how re they likely to be overcome? In ome cases the trees blossomed well, ut too few blooms were fertilised, and therefore the setting of fruit realight.

the | during the pruning season.

vided and fruit setting still remained poor, then attention should be directed to the nutrition of the tree, particularly during the early Spring. particularly during the early Spring. The fertiliser practice can best be considered at this time of the year. A digestible menu should be prepared and the meal must be served punctually and well within the diner's reach. Where growth last season was poor, it is likely that the tree will experience a nitrogen shortage at blossoming and setting. This is the time when the trees' nitrogen demands are high, and hand-feeding with sulphate of ammonia or nitrate ome cases the trees blossomed well, ut too few blooms were fertilised, and therefore the setting of fruit ras light.

This lack of cross-pollination may are been caused by cold, windy

demands are high, and hand-reeding with sulphate of ammonia or nitrate of soda should be adopted, about three or four weeks before. Don't wait till the newly-formed fruit begins to fall, but allow sufficient time for the fertiliser to reach the stronger solutions and more toxic

early irrigation will be found beneficial.

Plough under cover while they are still succulent. Rapid decomposition and the accumulation of nitrate nitrogen will benefit the trees. If ploughing is delayed until after blossoming, it may be injurious temporarily to both trees and crop unless other provisions have been made to increase the available nitromade to increase the available nitrogen. In orchards where the cover crop has been sown late, in alternate lands, the majority of the growth is made in the early Spring, then ploughing may be delayed to obtain a crop, but growers should supplement the nitrogen supply by applications of this type of fortilizer to the tions of this type of fertiliser to the bare lands and plough these lands

material can be employed against such pests. To destroy the eggs of both the Green Peach Aphid and the Cherry Aphid. tar distillate at a strength of 1 gallon in 35 gallons of water will be found effective if water will be found effective it applied before the end of July. For Black Peach Aphid, tangle-foot should be placed around the tree trunks during June and July to trap this insect when it migrates from the costs to the tree trunks. roots to the tree tops, in early Spring. Red Spider and San José Scale can hed Spider and San Jose Scale can be effectively controlled by Winter sprays of lime sulphur, 1 gallon to 9 gallons of water, or red oil, 1 gallon to 20 gallons of water.

Control of Codlin Moth.

The problem of orchard sanitation is a very interesting one. The control of Codlin Moth in Victorian orchards affords an excellent subject for a discourse on orchard sanitation. The usual arsenate of lead and oil sprays are applied with monotonous regularity, and give varying results. Instead of adopting the attitude that spraying is the last line of the de-fence system, many growers prefer to make it the heavy artillery. They retreat from the front line defences where they could inflict heavy casualties on the foe and allow him (or is it her this time?) to add battalions to the attack.

The front line defences used in repelling Codlin Moth attacks have been called supplementary control measures. I think this is an unfortunate term, because it conveys the impression of only a minor role. The recent increased interest in banding fruit trees, either with hessian or chemical bands, is a step in the right direction, and in some orchards this direction, and in some orchards this development has assisted in reducing the Codlin infestation to very low numbers. The second-hand fruit case and the packing shed are constant sources of infection for most orchards. Some growers have made their sheds moth-proof, and now store all their picking boxes in them. By placing troughs containing vines By placing troughs containing vine-gar solution beneath the western windows, these growers have trapped thousands of moths in the Spring.

The removal of loose bark from The removal of loose bark from trees and props, and filling wounds and crevices in trunks and branches reduces the amount of cover available for the Codlin larvae, which must seek shelter to hibernate and pupate. This will ensure that a larger proportion of larvae will be found in the bands. found in the bands.

The subject of pruning is not a particularly suitable one to treat in a remote manner, and I have refrained from discussing even the main principles because growers are principles because growers a already well verséd in this subject.

Make Preparations Early.

There are a few reminders in other directions which might be helpful. As soon as Winter spraying is com-pleted, see that the spray equipment is thoroughly overhauled in readiness for the next season. Breakdowns in the spraying outfit are sometimes very costly.

Secure an ample supply of scions for reworking unprofitable varieties of trees in the Spring, and bury these in a cool, moist place to keep them

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GERRARD The The That Binds

Tar Versus Oil

Sprays Compared

The "chug, chug," of light petrol covered, to engines in spray pump outfits can be heard on all sides in the orchard settlement, as growers are hard at work spraying Peach trees with tar distillate to kill aphis, says the "Shepparton News."

The Best Defence.

The best defence against skin burns from the spray appears to be a heavy application of some kind of grease or lanoline on the face before starting the work.

ing is probably the least sought after, as despite hoods of hessian or cloth, or one of the various kinds of masks, spent a fortnight in bed after a particularly severe burning last season, and already some of the orchard men kill aphis, while red oil will kill both show patches of burned skin around aphis and San Jose scale. I prefer to their eyes, which have to be left un-

Although tar distillate is a comparative newcomer amongst sprays, it has been adopted on almost all oror one of the various kinds of masks, the drifting spray invariably seems to find its way in to the skin somewhere. Where it reaches the skin it causes severe burns. One man it causes severe burns. One man return for the skin in the district. A few or chardists, however, still condemn its use. One, an experienced fruit-grower at Orrvale, last week supported the use of red oil as a spray for Peach trees.

use the oil."

Results from Spraying

Tests by Department

THE Pakenham Growers' Asso THE Pakenham Upper Fruit
Growers' Association met recently to hear a report from
Messrs. Provan and Harper, of the
Victorian Department of Agriculture,
upon the results of surviving our deupon the results of spraying on de-monstration plots on Mr. Woolf's Valley View orchard.

Although smarting slightly from the effects of tar distillate spray near his eyes, a Shepparton East Orchardist defended the distillate. "I admit that red oil will kill the scale," he said, "and it is certainly easier on the tree itself, but tar distillate is the only spray we have had here which will effectively get rid of the aphis."

Mr. Provan said that at Valley View the trees had been sprayed under a programme advocated by the Department for the control of Codlin Moth and Black Spot. In addition some of the trees had been treate with 5 lb. of complete manure and lb. of sulphate of ammonia, but i was not possible to determine any definite results from only one season use of fertilisers.

Under the two-spray schedule adopted for Jonathans, Black Spoinfection had been nil. Under the "A" schedule Codlin Moth infection had been 2.3 per cent. (comprising 1.2 per cent. entry and 1 per cent. stings) and under the "B" schedule 3.3 per cent (2.1 per cent entry and 1.2 per cent. cent. (2.1 per cent. entry and 1.2 per cent. stings). Black Spot infection of Yates and Delicious sprayed had also been nil. Codlin Moth infection of Yates had been 2.6 per cent. (1.5 per cent. entry and 1.1 per cent. stings), and of Delicious 0.66 per cent. (0.4 per cent. entry and 0.26 per cent. stings).

Lure pots were an important in determining the best time to spray for control of Codlin Moth and liminating unnecessary sprays. The Lure pots were an important factor for control of Codlin Moth and eliminating unnecessary sprays. The peak emergence of moths was on November 30, when the average catch per lure pot was 1½. This was very low compared with the peak emergence in other districts, which was as high as 16. The cost of spray material per tree worked out at about 3d. for Black Spot and 23d for Codlin 3d. for Black Spot and 21d. for Codlin

Mr. Provan emphasised that the Department was eager to have the co-operation of growers in the conduct of the demonstration plots.

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Complete Fertiliser

Nitrogen, Phosphate and POTASH is only common-sense means of replacing the plant-food removed by

Even if the crop fails the tree has drawn on plant-food



fruit spur or terminal growth is short; the bark is tight—the fruit undersized and under-coloured;
"Die-back" or "Rosette" appears

on the terminals:

leaves are pallid, limp or scorched on the margins;

the trees are under-fed with humus or fertiliser or both.

Full grown trees need 10 lbs. of 2:2:1 a fertiliser mixture containing 10% POTASH. Smaller or extra large trees, need proportionately less or more.

st POTASH MAKES all THE DIFFERENCE st

Pertiliser Starvation

Deficiencies That Can be Supplied

Eight Mineral Elements Necessary

ty far the most important element the fertilising of orchard trees is rogen, declares J. H. Weinberger, sistant Pomologist, Maryland, b.A., in the latest issue of "Better nit." In the following article he plains why injuries are caused by leached out of the soil and trees replains why injuries are caused by the soil and trees replains why injuries are caused by the soil and trees replains who is the soil and trees replains when the price of it as a contribution of the soil and trees replains who is the soil and trees is not produced whose cause could be identified.

By far the most important element way definite disorders were produced whose cause could be identified.

By far the most important element in the fertilising of orchard trees is nitrogen. This element is easily leached out of the soil and trees replained to the soil and trees is nitrogen. This element is easily leached out of the soil and trees replained to the soil and trees is nitrogen.

lains why injuries are caused by tiliser deficiency. Vitrogen, phosphorus and potasm are the elements usually uight of as fertilisers for orchard es. These are the elements that most often lacking for plant with in soils. However, there are the other mineral elements which we thus far been found necessary the successful growth of a fruit e. If the soil lacks any one of the second process of the second process of the trees cannot survive, and finite disorders or symptoms are oduced in the tree, by which it is ten possible to diagnose the cause the trouble. A fertile soil must cessarily contain an available pply of all essential elements, and me orchard soils are deficient only nitrogen. nitrogen.

mitrogen.

In many districts the disorders used by lack of one or more of ese elements are of considerable onomic importance. For example, yellow mottling of the leaves and rosette of Peach trees are cured applying zinc sulphate to the soil. South Africa ½ to 2 pounds of pper sulphate per tree are applied the soil to overcome loss of green loring matter and rosetting of each trees. In Florida, die-back of trus trees is controlled by application of copper salts. Die-back and lorosis of prune trees are associate with deficiencies of potassium in esoil. Leaf scorch of Apples is also sociated with potassium deficiencies. I parts of California and Florida manances is regularly applied to citrus constructions. anese is regularly applied to citrus ees to overcome chlorosis. In any art of the country trees on a high clium soil may suffer from a lack iron. Internal cork and certain pes of cracking and drought spot Apples are physiological disorders hich are associated with nutrition.

Can be Produced Artificially. It is possible to produce these deciency symptoms under controlled

way definite disorders were produced whose cause could be identified.

By far the most important element in the fertilising of orchard trees is nitrogen. This element is easily leached out of the soil and trees respond most readily to applications of it as a fertiliser. When the nitrogen supply in the soil is low, the trees lack vigor, terminal growth is short, few leaves are formed, and few fruit buds are differentiated. Leaves are small, yellowish green, much twisted and curled, and develop reddish tints and reddish brown spots. Leaf and blossom buds are slower to reddish tints and reddish brown spots. Leaf and blossom buds are slower to open in the Spring, and defoliation takes place earlier in the Autumn. The flowers are weak, often do not set, and if they do set, the fruits are apt to drop. The fruits ripen earlier, are smaller, and usually highly colored. Nitrogen starvation is apt to appear in sed orchards or on shellow appear in sod orchards or on shallow soils. It is the most easily con-trolled deficiency, and seldom proves fatal to the tree.

Phosphorus and Potash.

Phosphorus and Potash.
Phosphorus deficiency on fruit
trees has seldom been reported under
field conditions. When Peach trees
are grown in pure sand supplied with
a nutrient solution lacking phosphorus, they stop growth early in the
season, but annear parfectly healthy phorus, they stop growth early in the season, but appear perfectly healthy. The leaves are large, dark green in color, and have a tough, leathery appearance. They lack the bright green color of leaves on a vigorously growing tree. In severe cases shoot growth is small, leaves are small, and defoliation occurs early. Wallace reports that on Apples fruit size is reduced as in nitrogen star-Wallace reports that on Apples fruit size is reduced, as in nitrogen starvation, but the fruits are poor in quality and have a dull, bronze finish. In certain soils in England, where the phosphorus supply is so small that pasture plants cannot grow healthily, fruit trees show no sign of phosphorus deficiency. Apparently fruit trees are good phosphorus fruit trees are good phosphorus feeders.

When available potash is scarce in the soil, the effects on the trees are less drastic than nitrogen deficiency, It is possible to produce these deciency symptoms under controlled onditions. In order to be able to dentify them when they occur in the ald, one-year-old Peach trees were cown in sand supplied with a utrient solution in which a particutar element was lacking. In this

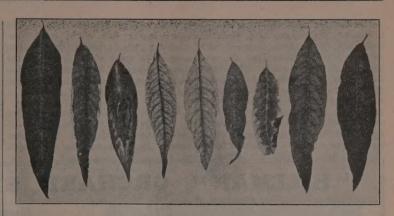


Illustration of leaves affected by deficiencies quoted in this article. Reading from left to right: 1—Complete leaf. 2—Deficient in potassium. 3—In calcium. 4—In magnesium. 5—In iron. 6—In nitrogen. 7—In sulphur. 8—In manganese and 9—In phosphorus.

leaves near the margins and between the veins.

With Apple trees, defoliation occurs early, the leaves at the tips dropping off first. In severe cases, the tips of the branches may die back. Blossom buds are formed and may set, but the fruits are small and of poor flavor. In mild cases potassium fertiliser application to the soil will correct the trouble, but in severe cases recovery is more difficult and often death of the tree resevere cases recovery is more difficult, and often death of the tree results. In any potash fertilisation, it is important that the fertiliser element be placed as close to the roots as possible, since the element is quickly tied up by the soil and rendered unarrailable. dered unavailable.

Lime Deficiency Rare in Field.

A simple calcium or lime deficiency of fruit trees does not often occur in the field. Calcium-starved trees grown in sand cultures have large, deep green leaves which tend to be stiff and to roll the edges inward. Late in the season a large area of lead times a supply in the center of dead tissue, usually in the centre of the leaf, becomes yellow and quickly dies. The injured leaf soon drops off. Shoot growth may or may not be normal. So far as has been ob-

ance. The distinguishing symptom of potassium deficiency is the "leaf scorch" which develops when the margins of the leaves die, and the dead tissue falls off in ribbons. In the centre of the leaf small spots of dead tissue appear also. The leaves are light green in color, smaller in size, and seem thin, brittle and papery. The edges of the leaves are curled inward. Sometimes a chlorosis appears on the leaves near the margins and between are fight green in color, smaller in size, and seem thin, brittle and papery. The edges of the leaves are curled inward. Sometimes a chlorosis appears on the leaves near the margins and between duced, but it too is soon affected and drops off. Apple fruits are woody and fail to mature because of lack of

> Where iron is lacking or is unavailable in the soil, severe chlorosis results. The veins, as well as the areas between the veins, lose their green color and may even become almost white before they drop off. The leaves at the tip are lost first, as contrasted with the older leaves lost first on no magnesium treatment. Lack of iron under field conditions cacurs frequently. It is most often observed where considerable calcium carbonate or limestone is found in the soils or in the rock from which the soil is derived.

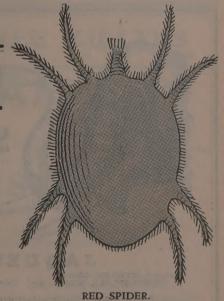
Although the soil may be high in iron content, it may be rendered unavailable to the trees by the action of the excess lime. Iron chlorosis on Peach trees also occurs readily in sand cultures when potassium, calcium, or magnesium are lacking and iron supply is low. Under these conditions, if the trees are given either iron or if the trees are given either iron or one of the other elements of the trouble may disappear. The easiest method of furnishing iron to Apple be normal. So far as has been observed with Apple trees, bark, blossoms and fruit are normal.

Magnesium deficiency.

Gargoyle RED Spraying Oil

is the most effective control for the red spider, bryobia mite and other sucking insects that spend the winter in the form of somewhat flattened spherical eggs. As these mites feed through sucking mouth-parts which pierce the epidermis of the leaf, a poison spray is unsuitable. They should be controlled by a contact insecticide - suffocated by Gargoyle RED Spraying Oil

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A sucking insect immune to poison sprays of the arsenic

type.

fruit trees growing in its absence soon stop growth. With Peach trees the terminals die and new shoots start out below the tip, which are small and produce only small, light-green leaves. These latter to the leaves. Denomination does not occur until late in the season.

Most soils contain ample supplies of manganese, and the cause of manganese deficiency disorders usually lies with certain soil conditions.

No disorder of fruit trees due to a lack of sulphur has been reported, and while trees are sprayed with sulphur for the control of diseases, there is likely to be none. However, sulphur is an essential element, and tort the leaves. Defoliation does tort the leaves. Defoliation does to the leaves at the lack of manganese unavailable to the plants. High lime content is a common cause, as with iron deficiency. With Peach trees, sulphur is an essential element, and tort the leaves. Defoliation does leaves turn light green reparable to the plants. High lime content is a common cause, as with iron deficiency. With Peach trees, sulphur is an essential element, and tort the leaves. yellowish color on the leaves. Chlorophyll is lost from the areas between the veins but not from the veins, and the areas adjacent to them. Growth is stunted and the leaves

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Injuries Easily Overcome.

Internal cork and certain types Internal cork and certain types drought spot in Apples are rath widespread in occurrences, and a pear to be associated with boron diciency. Various workers in Ne Zealand, British Columbia, Ne York and the U.S. Department Agriculture have reported success the control of internal cork at drought spots in Apples by the use of 1/3 to ½ ounce of boric acplaced in holes in the trunk of large Apple trees, or by application one pound of boric acid per tree the soil. With Peach trees in boro deficient sand cultures, the termina deficient sand cultures, the termina die back, lateral buds commend growth, and they also are soon affected. Small, irregularly-shaped area in the leaf die and drop out. It jured leaves fall off readily. On the stem, dark brown corky spots all pear, giving it a very rough appearance.

Applications of zinc to fruit tree have been successful in combating disorder called rosette, or little lea The leaves are small, chlorotic, an branch growth is stunted, giving rosette appearance. In severe case the tree will die the trees will die.

Copper deficiency has been observed on citrus trees in Florida, and Apples, Peaches, and Plums in South Africa. The leaves become chlorotic the terminals are rosetted, and the twigs die back. Spraying the leave with copper, or applying a to pounds of copper sulphate per tree the soil readily corrects the trouble

Of the 11 elements whose deficienc symptoms have been described, nitrogen is the one commonly lacking. The symptoms of lack of nitroge are easily recognised. Available potassium is scarce on many orcharsoils, yet no cases of severe deficiency and injury have been observed, a has been reported in Massachusett and Canada. However, with available potassium low and lime contenhigh, injury from lack of available iron may occur on fruit trees on certain soils. It is probably the first to be suspected if chlorosis occurs. symptoms have been described, nitro

to be suspected if chlorosis occurs.

Physical injuries to trees which produce disorders resembling mineral deficiency chlorosis are common, and Winter injury to the crown, mous injury, or disease, may be suspected. If no injury is apparent on a unhealthy tree, close examination of the nature and degree of chlorosis the pattern of green and yellowareas, the appearance of dead area in the leaf, the progress of defoliation, and the presence of twig in jury may provide clues as to the cause of the disorder.



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Extract from "BETTER FRUIT," March, 1937, by Dr. R. L. Webster, Entomologist, State College of Washington, Pullman: CODLIN MOTH COVER SPRAYS—"Ever since the imposition of an arsenic tolerance in 1926, and even before that time, investigators have been testing other materials which may be used in place of lead arsenate. Following all these intensive and extensive investigations lead arsenate appears to have certain inherent qualities which place this material foremost as an insecticide for codlin moth control."

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N.Z.—Pizzey, McInnes Ltd., Box 1114, G.P.O., Auckland.

iennial Cropping of Apples

LIGHT AND HEAVY CROPS ALTERNATE

Manuring and Pruning Methods

IENNIAL CROPPING, which means the tendency of fruit trees to bear a heavy crop ry alternate year and light crops the intervening years, is probably greatest factor against securing sistent crops, writes Mr. R. G. milton, Orchard Instructor, in the issue of the "New Zealand Jour- of Agriculture" being cut away, and a commencement ment made in the reduction of the number of leaders by thinning out from three to four in each tree. The manuring was increased by 1 lb. of superphosphate per tree.

The following season was the "light" year, and a large amount of new lateral growth was produced. In of Agriculture.

Many varieties of Apples, prin-ally those which are spur bearers, affected by biennial cropping. Is habit may first be brought about any factor, natural or otherwise, ch causes an exceptionally heavy p in any year. Once the natural ance has become upset the cycle of nnial cropping quickly becomes ablished, and careful treatment is juired to correct the trouble and ain bring about average annual bps. To understand corrective treat-nt better a grasp of the causes derlying the cycle of biennial crops desirable.

desirable.

When the tree carries an excepnally heavy crop, one which is bend its normal capacity, the phenonal demand made by the growing ait seriously depletes the elaboratsap supply, and results in the mi-starvation of the developing ait-buds. Consequent upon this ni-starvation, the majority of the ait-buds remain undeveloped and il to produce fruit the following ason. During the season of the the crop the surplus of elaborated p produces excessive bud-developant, with a consequent heavy crope following season, and so the cycle ntinues.

The apparent limiting factor is that elaborated sap. This may be used by lack of an adequate and allable food-supply to the roots or insufficient leafage to elaborate e available sap, or by both of ese. The spur-bearing varieties, parently because of their sparse afage, are more prone to be thrown at of balance by a heavy crop.

An observation, amply supporting e contention that the biennial cropag habit can be overcome, was ade possible by one grower who lopted the suggested treatment on pple trees in his orchard.

The variety, Dunn's Favorite, was lected for the purposes of the observational test, because it is condered to be one of the varieties lost prone to be thrown out of constent cropping. The particular rees were planted in 1914, and were cell grown, being approximately 12 to 14 ft. high, and having a 14 ft. pread. The average number of eaders on a tree was in the vicinity twenty-four. At the commencement of the observations the trees ere heavily laden with short fruit-purs, while practically no lateral rowth was to be found. The trees ad a rather exhausted and stagnant ppearance. Annual manuring had ppearance. Annual manuring had een carried out, the trees receiving pproximately 3 lb. of superphos-hate and 2 lb. of bonedust each. reen manuring with blue lupins had lso been commenced in 1928.

The method of improvement was by 1) increased manuring, continued rowing and ploughing under of reen crops, and by (2) an improved ystem of pruning. In the Winter of \$30 a heavy reduction was made in the number of spurs carried by the rees, approximately 50 per cent.

The following season was the "light" year, and a large amount of new lateral growth was produced. In the Winter this new growth was left uncut, while a further inroad was made into the remaining old spurs, and approximately 20 per cent. were removed. The leaders were reduced in most of the trees by a further two. The manuring was increased to 8 lb. per tree, comprising 6 lb. of superphosphate and 2 lb. of bonedust.

superphosphate and 2 lb. of bonedust.

The second season was due in the cycle as a "heavy" year. With the heavy thinning of the fruit-spurs, followed by a heavy thinning of the fruit, the crop was reduced and approximately only 10 bushels per tree were carried. Extensive new lateral growth was made, while a heavy development of fruit-buds took place on the previous year's uncut laterals. At the Winten pruning approximately 30 per cent. of the remaining old spurs were cut away, and all new growth, except where crowding, was left intact. The leaders were again slightly reduced in numbers. slightly reduced in numbers.

In the Summer of 1933 the trees now presented quite a different appearance, being liberally furnished with new lateral growth. The development of healthy buds had been extensive, and the promise was for a heavy crop in what would, in the old cycle, have been a "light" year. In the manurial programme an increase to 10 lb. per tree was made, which consisted of sulphate of ammonia 1½ lb., superphosphate 6 lb., and bonedust

The following season turned out to be one of heavy crop, close on 20 bushels per tree being produced. The majority of the fruit was now being carried on the lateral wood. Despite the heavy crop new lateral growth was satisfactory. Since then, with the exception of one year when a late frost lowered the crop, cropping has been consistent, and this season sees

the fourth consistent crop of over 20 bushels per tree.

Each Winter the pruning has been on the same basis, that of cutting away the old and exhausted wood, and leaving the new lateral growth to take its place in the sequence of to take its place in the sequence of fruiting. The provision of lateral growth has provided the tree with increased leafage, and the benefit is to be seen in the healthy rejuvenated appearance of the trees. The manuring has been gradually increased, sulphate of potash being added in 1934 and since. Carbonate of lime, 12 cwt. to the acre, was applied in June, 1935. Last year's manuring consisted of 15 lb. per tree applied in August of a mixture containing fish August of a mixture containing fish manure, bonedust, and sulphate of potash at a ratio of 2:10:3, and in October with 4 lb. per tree of meat-

As a result of this season's satisfactory crop, together with further satisfactory new lateral growth and satisfactory new lateral growth and good fruit-bud development, it is considered that these trees have now been established in consistent cropping. Other biennial cropping varieties in the same orchard appear to have responded in a like manner, and have responded in a like manner, and have reverted to annual average

In orchard practice it must be recognised that increased quantities of manure at times must be applied if heavy crops, together with sufficient new growth, are to be maintained. Increased manuring, however, will not correct biennial cropping or maintain consistent crops unless it is associatconsistent crops unless it is associated with the correct pruning practice. Briefly put, this consists, in the case of all Apple trees, of the removal each Winter of the older and more exhausted fruiting wood, and the spacing and leaving unshortened of all one-year-old lateral growth.

About 15,000 acres of land in Los Angeles County suffered extreme loss through the erosion of top soil in recent years. Plans are being made to control erosion.

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hipping Fruit in Gas provision of special chambers and further experiments in the admixture

DEMONSTRATION SHIPMENT

Includes Tomatoes and Passion Fruit

the 700 cases of Australian fresh the 700 cases of Australian fresh s that left Australia per S.S. sbane Star" at the end of July re in London in the condition pro-ied by the Elgin Gas Corporation, sydney, a new market will be ed overseas for Australian soft

is is the first time on record that attempt has been made to send tralian Tomatoes to England, and demonstration will be watched, only by Tomato growers, but by crowers of soft fruits hitherto aght impossible to ship such a

he demonstration was made pos-e by the Blue Star Line Ltd. equip-three special hatches with the distributing machinery invented manufactured by the Elgin Gas poration Ltd., an entirely Austra-company with headquarters in

company with headquarters in ney.
he shipment comprises Oranges, nons, Mandarins, Passion Fruit
Tomatoes. The Chambers have
n sealed by officers of the Comwealth Commerce Department
the seals will not be broken ext in the presence of the Departnt's inspector in London, who will
ort upon the condition of the fruit
n unloading in London. We unstand that if the new method of
storage in the ship's holds is
ved entirely satisfactory, the Blue
r Line will incorporate it into
eral new fruit-carrying ships
ich are to be built.

ut this demonstration is not the

But this demonstration is not the this demonstration is not the experiment made with the new cess. The company has already ducted extensive tests, both their own plant and in the Munial Cold Storage Works in Sydney, I the tests are claimed to have nevery satisfactory.

Mr. Frank Payne, a director and chief engineer of the Elgin Gas rporation, is travelling on the risbane Star," and will be responde for the control of the machinery the conduct of the machinery of the conduct of the test en route.

has been largely responsible for perfection of the process during experiments unraken by the company during the stathere years. He has been enged in air conditioning engineering the past 25 years and in an r the past 25 years, and in an terview granted to our representate on board the boat, stated that ey anticipate a revolution in sea ansport of perishable foods as a sult of the invention of the new

In 1935, said Mr. Payne, following a small scale in air-tight cabinets their own plant, the Sydney City runcil gave permission for the gin Gas Corporation to carry out rther tests under commercial contions at the Municipal Cold Storage orks. Without going fully into the chnicalities of the process, the practical contion of sulphuric acid on bicarmate of soda creating carbon diside through a patent process that very scientifically worked out. lectric control, dehumidification, dissibution and circulation all come into the scheme. The gas is pumped into the scheme. The gas is pumped into the scheme are recorded and checkly several times daily, and the hole process is much more complited than can be understood by the yman. In 1935, said Mr. Payne, following

Some Early Tests.

The test fruits included Pears, Apples, Passion Fruit, Tomatoes and Grapes. They were commercial samples of ordinary quality. On the supposition that Tomatoes and Passion Fruit were the most liable to Passion Fruit were the most liable to breakdown, the tests proved that Tomatoes stored for 25 days were found, upon removal, to be in sound condition and were afterwards kept for 7 days without sign of breakdown. After 21 days of storage, Passion Fruit showed no signs of withering.

Grapes in gas storage, when compared with similar Grapes under ordinary cool storage, held better and after 7 days after being removed from the gas chambers, showed no breakdown, whereas the Grapes from breakdown, whereas the Grapes from ordinary cool chambers were worth-less after 2 days. At that time the accurate control of gas, temperature and humidity was not as satisfactory as has since been obtained. Part of the object of the present demonstration shipment is to make a careful study of the process under actual shiphoard transportation. shipboard transportation.

Summary of Sydney Tests.

In reporting upon the results obtained from the Municipal tests, the following conclusions were arrived

The condition of citrus fruits, Grapes, Passion Fruit and Tomatoes, treated with gas storage, was retain-ed better than the control fruit in the refrigerated chamber.

Results with other fruit were only fair, but were sufficiently favorable to warrant further tests being carried out when better results could be expected.

Whilst many difficulties were encountered, arising from the unsuitability of the chambers used, and the variations in the quantity of gas used, these can be rectified by the

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397 Murray Street, Perth.

of the gas.

The constant opening of the chamber for the purpose of taking gas readings and constant inspection of the fruit was detrimental to results. In the "Brisbane Star" all gas readings are done outside of the chamber which we will be sufficiently the start of the chamber which we will be sufficiently the start of the chamber which we will be sufficiently the start of the chamber which we will be sufficiently the start of the chamber which we will be sufficiently the sufficient of the chamber of the ch bers, which are officially sealed, and are recorded and controlled by scientific instruments devised for the pur-

What it Means.

Up to date, the experiments have proved that the Elgin process is superior to all ordinary refrigeration in that the natural flavor and appearance of the fruit is preserved, that there is less shrinkage, that it gives much longer out-of-store life, that much longer out-of-store life, that the cost of storing is estimated at about 50 per cent. less than ordinary refrigeration, and that soft fruit, such as Tomatoes, Bananas and Passion fruit can be stored in gas with success over longer periods than by ordinary refrigeration.

The demonstration will be watched with keen interest, and, if satisfactory, the Elgin process opens the way for the shipment of fruits, not now exportable, to be carried long distances to the large overseas was letter of the world. markets of the world.

The application of the system to other perishable foods has still to be worked out, but, on present indications, it would appear that this Austions, it would appear that this Australian invention is one that will greatly affect the problem of food storage, and coincides with the attempt being made in many other countries to prolong the storage life, quality and after-storage condition of perishable foods. We hope to be able to report upon the results of the present demonstration shipment at an early date an early date.

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ANSWERS TO QUESTIONS.

Storage Life of Pears.

We have an enquiry from Quantong along the following lines:—

How long should export Pears normally keep in cool store and be fit for export, if picked correctly?

What is the maximum length of time fruit should be in transit to cool store after being picked, in order to be in a fit condition for export?

The exportion was referred to Mr.

The question was referred to Mr. G. B. Tindale, Cool Storage Research Officer of the Victorian Department of Agriculture, who gave the following reply:-

The cool storage life of several varieties of Pears at 32 deg. has been determined over several seasons, and has been found to be as follows:—Howell and Bosc, 3½ months; Packham, 4 to 5 months; Josephine, 5 to 6 months; W. Cole and W. Nelis, 6 to 7 months.

These are the maximum periods for These are the maximum periods for which these varieties, picked in a fully grown but immature condition, may be stored at 32 deg., and on removal to outside temperatures will ripen normally. If but slightly overstored, the Pears, on removal, fail to develop flavor or lusciousness,



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NOT A SINGLE GROWER WHO HAS USED IT HAS ANY-THING BUT PRAISE FOR CHILEAN NITRATE OF SODA.

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ALL MERCHANTS - ENQUIRIES,

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The English.

Fordson Tractor for the Orchardist



There are 9 ways in which the FORDSON will save Time and Money in Your Orchard

PLOUGHING GRUBBING HARROWING SPRAYING TIMBER CUTTING **PUMPING**

HAULING TRANSPORT TO MARKETS

This All-Purpose Tractor is Pounds Lower in Price Than any other competitive make of Equivalent Power.

The Famous OLIVER PLOUGH

There is a Plow for Every Type of Crop and Every Kind of Soil to suit the Market Gardener, the Berry Grower and the Orchardist

Your Local Ford Dealer will arrange a Demonstration of the Fordson Tractor

while if further overstored, they develop core-collapse, scald, dar-ing of the flesh and a very n flavor.

flavor.

The periods stated above will very considerably reduced if Pears are not promptly cooled a picking, or if the storage temp ture is above 32 deg. Pears, we picked, will ripen in a week if atmospheric temperature averaged deg. Thus Pears picked on a Mon at Quantong during warm weat would be half ripe before reach Melbourne on a Thursday, and cool storage life would thus be duced by half. This reduction we duced by half. This reduction we be so great in the case of the vaties with the shortest storage 1 as to make the export of the s under such conditions a most do ful proposition. With Joseph Cole and Nelis, however, not only these varieties harvested later therefore during cooler weather, a reduction of 50 per cent. in cool storage life would still en one to export them successf However, there can be but doubt that the success of the export business has depended export business has depended the ability of the grower to promicool his Pears after picking, where ally means that the Pears she be cooled where grown. When cooled, a delay even of a week or awaiting packing and shipping then of no consequence.

With regard to the time in w With regard to the time in will Pears can be kept in cool store pto shipment, this depends again variety. Those with the long storage lives could, of course, be much longer than the varieties with the shortest storage lives. While maximum periods have not a determined exactly, yet it is probinate the maximum time for Howell and Bosc would be one most for Packham and Josephine 2 monand for the W. Cole and W. Nithree months. three months.

COLD STORAGE OF VEGETABL

Research in England.

The British Government is ducting experiments at Covent (den into the storage and trans of fruit and vegetables, especivarieties not generally so treat it is anticipated that new deverments will be possible thereby, that new export trade from oseas will be opened up. By slig cooking Peas, it is expected that can be carried long distances open up as fresh Peas. Very I modification from the usual storage given to meat will be nesary on ships. The British Government is sary on ships

A further feature demonstrate the new laboratory which has installed, is telling the age of Ap by the alcohol content, which creases as the Apple ages.

GAS STORAGE OF FRESH FRI

New Process for Melbourne.

A new company has been for A new company has been for in Melbourne to operate, unlicence, with a patent process for storage of fresh fruit with gas. company is styled Fresh Fr Storage Limited, and 30,000 sh are being offered to the public at such

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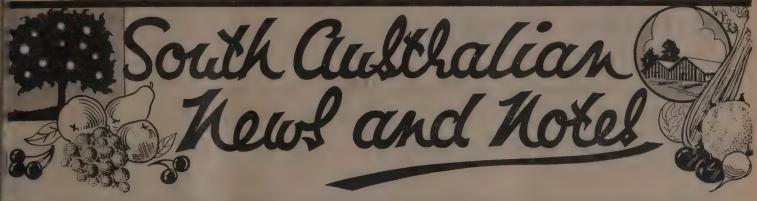
The ENGLISH FORDSON Supplies

All the Power Required on Any Orchard

The All the Power Required on Any Orchard

The All the Power Required on Any Orchard

The English Forms Spencer St. Station.)



LUDING OFFICIAL NOTES AND REPORTS FROM THE SOUTH AUSTRALIAN FRUITGROWERS' & MARKET GARDENERS' ASSOCIATION.

Ionthly Executive Meeting

the S.A. Fruitgrowers' and Market Gardeners' Association,

Market Gardeners' Association, held on Friday, July 30, 1937, and excellent attendance was record-Mr. N. T. Hobbs, the Associa-President, occupied the chair, Mr. N. I. Hobbs, the Associative President, occupied the chair, the following members were prete.—Messrs. W. J. Bishop, F. A. ks, F. Hughes, A. O. Petersen, C. Giles, C. Ragless, L. J. Wicks, W. Ind, G. T. Pitt, W. Parsons, R. mond, W. A. Hersey, G. H. ultz, A. Huelin, M. Dawkins, J. ts, F. Gill, A. Elliott, H. Walker, Ridley, M. E. Schache, R. Hunter, C. Cooke, G. Jennings, G. Parsons, J. Gore, R. Cobbledick, H. Schoft, W. Curtis, D. Grigg, G. Maceth, Will Nicol, G. Strange, H. N. ks, J. Turner, A. E. Brealey, H. Schultz, E. Giles, H. J. Sharpe, J. Coulls, A. Hollister, G. Sharpe, Stanford, W. W. Miller, C. R. Bist, T. Playford, M.P., and J. B. adell.

apologies were received from ssrs. C. J. Pitt and H. Robson.
As a tribute to the memory of our e Secretary, Mr. W. J. Kimber, the eting stood in silence for several

Minutes as sent out to members, re taken as read, approved of and afirmed.

etter was received from the Deretter was received from the De-rettment of Agriculture, setting out activities of a beetle "Carpophi-hemipterus," which has been dam-ing "split stone" Peaches during last two seasons, on the Adelaide ins. Particulars of this beetle d methods to combat its activities, on hand, and any member may tain same by applying to the Astant Secretary.

A report from the Department of riculture setting out the various antities of fruits held in the difrent State Cold Stores, was read.

A parcel of trade publicity material signed for use in advertising Aus-

NOTICES.

Quarterly Educational Meeting.

The Third Quarterly Educa-tional Meeting will be held in the Association Board Room on Wednesday, August 18, at 8 on Wednesday, August 18, at 8
p.m. These quarterly meetings
have aroused considerable interest among members, and it is
hoped that a good attendance
will be recorded at this one.
Mr. A. R. Hilton, of the Agricultural High School, Mitcham,
will delives are address.

will deliver an address, entitled: "Agricultural Education in U.S.A. and South Australia," and will be illustrated with

many lantern views.

Remember the date: Wednesday, August 18, and bring any friends that may be interested.

HE monthly executive meeting of [tralian products in the United Kingand dom, was received.

Letters of condolence expressed to the Executive, in loss of our Secretary, were received.

Letter from Mr. A. R. Hilton, of the Agricultural High School, Mit-cham, was received. Mr. Hilton will address the next Quarterly Educa-tional Meeting to be held on Wednes-day, August 18, in the Association Board Room.

Letter received from Messrs. Arthur Yates & Co. Ltd., also two very interesting publications. It was decided that Messrs. Yates & Co. be authorised to forward these books to members interested.

The new rail schedules and train departure timetables were issued to members interested in same.

Discussion was given to the annual meeting to be held on last Friday in September. It was decided that the annual meeting be conducted on the same lines as the Interstate Fruitgrowers' Conference held last year; a conference lasting all day, interspersed with a luncheon at midyear, a comerence tasting an tay, increased with a luncheon at midday. It was decided to hold the annual meeting as previously the last Friday in September, which this year would be the 24th. Arrangements for the conference was left in the hands of a subcommittee comprising the President, Vice-President, Messrs. Randell, Turner, Staniford, L. Wicks and Ron. Beck, Assistant Secretary.

Items for the agenda for the annual meeting were invited, Mr. F. Hughes moved "that a sub-committee be formed including our legal adviser to revise the constitution of the Association, and present the revised constitution for discussion and consideration at the annual meeting." Seconded by Mr. G. Jennings and carried. It was decided that sub-committee consists of a delegate appoint. ed by each section and branch with three members of executive.

The appointment of Secretary was given consideration, and it was decided to call for applications through the press. A further special executive meeting was called for Friday, August 13,

Mr. G. Strange reported on Celery Section's activities. Quantities had eased off considerably, and prices be-ing returned were satisfactory to

Mr. F. G. Gill reported on the To-mato Section's arrangements for the coming season.

Many members gave expressions of sympathy to Mrs. Kimber and family and acknowledged the great work done by our late Secretary in building up such a positive force as our Association is in the industry at the present time.

A vote of thanks was passed to the Assistant Secretary, Ron. Beck, for his able assistance, rendered since the death of Mr. Kimber.

VALE — W. J. KIMBER

ALL SECTIONS OF THE FRUITGROWING AND MARKET GARDENING INDUSTRIES PAY TRIBUTE TO THE LATE MR. KIMBER'S UNTIRING EFFORTS.

With the recent passing of Mr. W. J. Kimber, the fruit and vegetable growers of South Australia lost not only a very conscientious Secretary, but a good friend indeed. His loss will be mourned by many, but particularly so by the members of the South Australian Fruitgrowers and Market Gardeners' Association. Under the guidance of Mr. Kimber the Association emerged from a state of inactivity and apathy, to attain the strong and paramount position it holds to day it holds to-day.

For a long time to come, when the development is referred to, Mr. Kimber will be remembered. To a very large number of Association members, Mr. Kimber was more than a Secretary in the accepted sense—he was also guide, philosopher and friend to them. During the developmental stages of the Organisation the path to success proved to be by no means a rosy one. Success in anything



The Editor and Staff of the "Fruit World and Market Grower"

deeply regret the passing of Mr. W. J. Kimber and express their sympathy to his relatives and the South Australian fruit industry in their great loss.

means that tremendous difficulties have to be encountered, and surmounted, and Mr. Kimber had his share of troubles and difficulties in connection with his Association work. His strength of character and honesty of purpose proved to be, however, his greatest asset, and assisted him through many a difficult period. Apart from the fact that Mr. Kimber's work was his main interest, he had a liking for hobbies.

As a conchologist his ability and knowledge was well respected, and he was also a field naturalist of no mean ability. Mr. Kimber had one of the best shell collections in Australia, and was a member of the Shell Club, and the Field Naturalists' Society. For many years Mr. Kimber was a director of the South Australian Fruitgrowers Co-operative Society Limited. In the words of Mark Twain: "Praise is well, compliment is well, but affection—that is the last and final and most precious reward that any man can win, whether by character or achievement." —"C.W.M."

Tribute by the President, S.A. Fruitgrowers' and Market Gardeners' Association:

To increase the membership of an an exact is given to very few. Such is Association from 70-700, to build a practically defunct body to a powerful organisation, controlling the export of thousands of tons of produce annually, supervised by adequate market representation in the eastern States, in the comparatively short term of eleven years is no mean achievement.

Association:

Association: achievement.

To be approached for advice on many questions relating to fruit production and marketing, as well as on private matters by men in all walks

tesy and keen insight into the prob-lems of the fruit and vegetable grow-ers have placed him high in the esteem of primary producers in this

Mr. Kimber's organising ability, coupled with extraordinary success as an administrator and a deep consid-To have made a friend of almost everyone with whom he came in control things for co-operative effort in S.A. Established by field trial and scientific tests as the major recent advance in the control of Fungous Diseases of Vines, Orchard Trees and Vegetables

HOWARD'S COLLOIDAL SULPHUR

is better and cheaper than competitive brands. Pamphlets, prices and details of free test offer from the manufacturers:-

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RELIABLE ALMOND TREES...
Best Commercial Varieties.

ROSES, PLANTS AND SHRUBS of Dependable Quality Always Available.

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New Market, Grenfell Street, ADELAIDE Phone: C 4943. G.P.O., Box 827 G.

Mr. Kimber's passing constitutes a definite challenge to our fidelity. Let

The Association to-day faces an | us not allow his influence to pas

acute crisis.

Can Mr. Kimber's work be continued? Voluntary co-operation has accomplished much. Much, however, remains to be done.

Every grower a member, and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member and member loyal, would be a fitting but to the memory of a very grower and member, and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and member loyal, would be a fitting but to the memory of a very grower and the fitting but to the memory of a very grower and member loyal the betterment of others.

N. T. HOBBS, Preside

Tributes to the late Mr. W. J. Kimber

by all Sections of the Indus

POR over eleven years Secretary of the S.A. Fruitgrowers' and Market Gardeners' Association, the death of the late W. J. Kimber will be regretted, not only by South Australian friends, but by many others in the fruit and vegetable industries who came into business relationships with him. Mr. Kimber died in his 74th year on the morning of July 11. The funeral was attended by representatives of every comed by representatives of every com-mercial organisation and a proces-sion of cars, two miles long, was re-

Up to 1926, Mr. Kimber was a commercial fruit grower at Klemzig, when he became Secretary of the Association. It can he said that his contribution to the industry was great, and his personal help to growers is a record of his unselfish devotion to his later calling, as represented in the commercial side of fruit and vegetable distribution.

In his private life he was prominent in Church life, having been a leader in the Church of England Men's Soin the Church of England Men's So-ciety and Superintendent of a Sunday School for many years. He also took great interest in Literary Society work. He was also an authority on sea and land shells, and in 1918 was elected a Fellow of the Royal Society of South Australia.

As expressing their respect for the late Mr. Kimber, the following appreciations have been received:—

SECTIONAL TRIBUTES.

The successful operations of the S.A. Fruitgrowers' and Market Gardeners' Association are due in no small

Our late Secretary's guidance friendship with the whole of office staff, proved the greatest f towards a perfectly harmo understanding between employer employee. His advice and assis was freely given and was evide by the example set by himself.

He took a personal interest each member of the staff, made his regard by us that friend, more than that of an ployer. On behalf of those emply the S.A. Fruitgrowers' and ket Gardeners' Association, I car sadly regret the death of such Christian gentleman.—Ron R. Assistant Secretary.

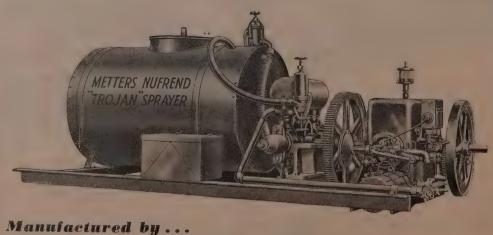
The Celery Section.

The late Mr. Kimber has been The late Mr. Kimber has been of the biggest guiding factors success of the Celery Growers tion. He has been the Secreta the Section since its inception proved to be thoroughly reliable a very great asset to the smooth ning of it, sometimes through difficult times.

He had a personal interest i individual grower, and made object to assist them in an possible.

deners' Association are due in no small measure to the formation of Sections for each particular type of produce, Sectional Committees working harmoniously with the central Executive. The influence and energy of the late Mr. Kimber were largely responsible for the extension and success of this success of this success of this success.

Metters' Nufrend "Trojan" Power



Sprayer

Specifications:—2-h.p. petrol engine, speed 5 r.p.m., direct coupled to Nufrend Spray Pum Vat of 50 gallons (approximate capacity fitted with rotary agitator, mounted on welded steel frame. The plant is equipped w a Metters Automatic relief valve, suction with removable strainer, double cock, 2-25 lengths of ½-in. special spray hose, direct and nozzles. The pressure may be regula and set as required up to 250 lb.

Capacity:—Pump is capable of delivering gallons of mixture per hour at a pressure 200 lbs.

Weight:-6 cwt.

PRICE 275

ME'I'I'ERS LIMITED, 124 Rundle Street, Adelaid

her tributes to the late Mr. W. J. Kimber

tion a great increase in con-tion had to be made, and ad-ng was the means of doing it. ry member in the Celery Sec-regrets his passing, and the industry is poorer without G. J. Strange, Chairman.

Tomato Section.

osing the late Mr. W. J. Kims Secretary of this large and tant Association, the Tomato n have suffered a great loss. He een associated with the Section the time of its inception, and een always willing and striving best interests of the growers. will be hard to find a successor low in his footsteps. Thoroughly l, he was at all times most ous, and never had an ungentlethought. His work among the to growers has been thoroughly ciated, and he was one of the dk. G. Gill. Chairman.

Cherry Section.

Chairman of the Cherry Section, st express, on behalf of all our bers, the profound sorrow felt e passing of our beloved Secre-His interest in our particular on was equally as great as that on was equally as great as that in every other phase of fruiting and market gardening, success we enjoyed uplifted while our setbacks were felt by just as keenly. Well do I report how last season's adverse her conditions worried him, permere than the actual growers of more than the actual growers of

Vice-President of the Associa-Vice-President of the Associa-I wish to pay tribute to his erving devotion to duty, and his disregard of self where his job concerned. To him, more than ne else, is the success of our ciation due, and no more fitting the to his memory could be made for us to ensure the continued the and success of that body.

personal friend, I must sa much one misses his cheerful and friendly advice. He was of nature's gentlemen, and to known him was a privilege.

few years ago his passing would proved an irreparable loss to the ciation; but so well has he built to-day his memory should be an tration to go on to still greater ess.—W. J. Bishop, Chairman.

F. & M.G. Society Ltd.

te passing of Mr. W. J. Kimber aves one of the kindliest and highly respected men in the industry. His unfailing courabundant tact and invariable temper endeared him to all his temper endeared him to all his ciates. He came prominently the Association at the most cal period of its existence, and his enthusiasm and untiring gy, built it into a strong, virile nisation. When the time arrived a further development of its actions the transfer of the stration of th s by the creation of a trading ty as part of the Association, Kimber again entered whole-tedly into the scheme and be-the first Secretary of the new ty. He was an intense believer ie value of co-operation.

s association with other co-ative societies has proved his h, and he was of invaluable help afting a constitution that would rve the true co-operative spirit is Society. Without murmur he ldered the increased work and d responsibility that the new ire entailed, and during those

lised that with the increasing of knew him, but to those who worked who had the opportunity of assessing him at his real worth, he became a friend indeed.

> The industry mourns the loss of one who during those latter years of his life gave so unreservedly of his finest powers, and sacrificed so many hours of leisure that he might build an organisation that would remain, and an organisation that would prove its worth to all associated with it.

His work stands as a monument to his untiring energy and a lasting tribute to his life.—F. C. Staniford,

Fruit Pool Society.

The members of the Board of the S.A. Fruitgrowers' Fruit Pool Society Limited deeply regret the passing of the Secretary, Mr. Kimber. Having been a fruitgrower himself, he understood the difficulty in disposing of big crops of preserving fruits in glut seasons, and showed his sympathy in a practical way by his untiring efforts in seeing the fruits were processed and sold to best advantage.

Few realise the many long hours Mr. Kimber spent working for the growers of stone fruits and Tomatoes, and with great success, due to his wonderful organising ability and keenness; nothing was too much trouble.

Mr. Kimber was first associated with the Fruit Pool in February, 1931. The Board then decided to obtain an advance from the Rural Credits Branch of the Commonwealth Bank to cover the cost of processing Plums and Tomatoes. On May 20, 1931, the Secretary reported that 35 tons of Plum pulp and 103 tons of Tomatoes had been processed on behalf of the Pool. This fruit realised to the grower 2/3 per case for Plums and 1/9 for Tomatoes, while on the market growers were being offered 9d.

In 1933 another glut fruit crop occurred, and it was decided to pulp on the growers' behalf 50 tons of Plums and 50 tons of Tomatoes, also to get an advance to cover costs of canning 100 tons of Duchess Pears. The above quantities of fruit were processed and helped the local market considerably, by taking a great deal of the surplus fruit. In 1934 word was received from London that the sale of export canned Pears had the sale of export canned rears had been disastrous, owing to the market being flooded with cheap American fruit. It was a great worry to Mr. Kim-ber, and many Board meetings were ber, and many Board meetings were held to consider the position and alle-viate the growers' position, as much as possible. On April 24, 1935, a grant was received from the Commonwealth Government to assist fruit growers. The Board was then able to pay growers all fixed prices for their

The last meeting of the Fruit Pool Society was held on May 27, 1936, when the finalising of all matters in connection with the Pool were dealt with. Growers can hardly connection with the Pool were dealt with. Growers can hardly realise the benefit to the market the processing of this glut fruit has been to them. Only the Board know the tremendous amount of work Mr. Kimber had in connection with it.— Turner, Chairman.

Vegetable Section.

Mr. Kimber was known to the older members of the Hills Growers' and Market Men's Association from the time of his appointment to the Secretaryship of the Fruitgrowers' and Market Gardeners' Association, before the amalgamation of these two im-

Although members of the Hills Growers' and Market Men's Association were in no way connected with the larger body, Mr. Kimber did all in his power to assist all those engaged in the industry.

His unselfish work with the producer is instanced by an occurrence some five years ago, when the Secretary of the Vegetable Growers' Organisation was seriously ill; Mr. Kimber was of material assistance to the President and Committee in the maintenance and smooth running of

His assistance was always sought when the annual social was held, and his advice materially assisted the success of these gatherings. Through his untiring efforts over the last seven or eight years, the amalgamation of these two bodies was brought about, which has since proved so beneficial to both sides.—Will. Nicol, Chairman.

Soft Fruits Section.

Although the Soft Fruit Section is the youngest Section of the Associa-tion, members of this have been in constant and intimate touch with our late Secretary during the period he acted as Honorary Secretary of the Campbelltown Branch. Being well known as a soft fruit grower in his early days in the industry, he quite realised that this particular branch of growers needed a separate Section to growers needed a separate Section to govern and overlook their interests. His tactful and reliable assistance was passed on to the younger members engaged in the industry, who benefited considerably from his experience. His Association with the Fruit Industry Sugar Concession Committee, assisted the Committee of the Soft Fruits Section very the Soft Fruits Section very materially, as he was so well versed in its working and principles.—Frank Hughes, Chairman.

From the Marion Branch.

It is with deep regret that we record the passing of our late Secretary, Mr. W. J. Kimber. By his unequalled knowledge and meritorious services to the various branches and the Association he attained a high regard by all members. For many years he made it a practice to be present with some of his executive officers at the annual meetings of the Marion Branch. His genial presence was highly appreciated by all members.

His cheery word will now certainly be missed by his many friends.—Ray Duncan, Secretary.

Barmera Branch.

Although growers in the Bermera District are situated 150 miles from Adelaide, they realised that organi-sation was essential to orderly marketing, and after discussion with the late Mr. W. Kimber, it was decided to form a Branch of the Association

Mr. Kimber's tolerance and tactful Mr. Kimber's tolerance and tactful perseverance, with many difficulties that arose in the formation and smooth running of this Branch, was keenly felt, and after a very short time the Branch proved a definite asset to growers in this River distant

His association with the Barmera growers was not only noted for his untiring efforts in organising the industry as a whole, but for the personal interest he took with the individual grower's dealings.—J. J. Elliott, Chairman.

Cudlee Creek Branch.

In the passing of Mr. W. J. Kimber, we feel that we have lost a friend and, although we wish his successor the amalgamation of these two important organisations.

Mr. Kimber's advice and assistitself a lasting tribute to his
the amalgamation of these two important organisations.

Mr. Kimber's advice and assistitself a lasting tribute to his
ance was often sought by market with a determination that helped him
gardeners, and was given freely. To gain the heights he did in solving

the Hills | the problems of the fruitgrowers.-n's Associa- | Roy B. Pritchard.

Salisbury Citrus Growers' Branch. In the passing of Mr. W. J. Kimber we feel that not only have we lost one of the best Secretaries; but have lost a friend. His relationship with those he met daily in the way of business was not simply that of an official carrying out certain specified duties; but as a man full of understanding of the many difficulties faced by those whose calling brought them into frequent contact with him. only did he understand the troubles besetting the producers; the had more than an ordinary fellow feeling with them, which led him to spend himself to a degree perhaps beyond his strength in his unremit-

ting efforts to render marketing more profitable and equitable.

The late Mr. Kimber combined within himself to a remarkable degree many excellent qualities; qualities more or less evident in a general way, but not too often gathered into one personality. To mention some of these attributes by name; we think of reliability and say "Yes, that was Mr. Kimber, without any reserve," and we are equal as emphatic when we speak of courtery or friendlines. we speak of courtesy or friendliness or industry or straitghforwardness ca self-effacement. These supplemented with wide knowledge, proclaim a man who must in the nature of things have exerted a wide and powerful fluence. There is that which pervaded our late Secretary's general conduct of business, which would perforce tend to create a finer atmosphere. There may not have been fluence. There is that which has adequate consciousness of it while our friend was with us; but being now better able to estimate the nature of his impact upon the business community with which he came in contact in an official capacity, we are ready to believe that the influence which he exerted while with us, will not wholly be lost now that he is no more.

The labor involved in producing from the soil is heavy and continuous; but marketing has a greater element of anxiety attached to it than even the growing of crops, and the minds of producers are being con-tinually exercised in the direction of finding better systems of market gulation to institute a more equitable ratio of prices between producer and consumer. It is one of the most difficonsumer. It is one of the most diffi-cult of problems, particularly in re-ference to citrus; it has been a task beyond the ability of those directly engaged in the industry, more especially since the heavy increase in supplies occasioned by the abnormal planting of this fruit along the

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No more corrosion or washer troubles. Always an even high pressure.



Made in one solid gunmetal casting and supplied with 40 or 60 gal. cask or copper tank.

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NICODUST.

AZURINE.

MONOHYDRATED COPPER SULPHATE for Celery, Tomato and Potato Blight.

BORDEAUX POWDER for Spraying. Save the bother of mixing Bordeaux Mixture.

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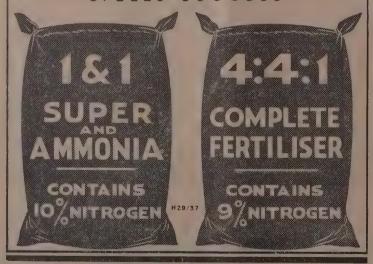
IT PAYS USE AMMONIA

SOILS LACK NITROGEN IN WINTER

THAT'S WHY

SULPHATE AMMONIA

IN MIXED FERTILISERS SPELLS SUCCESS



WESTERN AUSTRALIAN TOMATOES.

Three shipments of West. Tomatoes have already been received this year, and supplies are increasing. The first shipment opened up well, although later a disease developed in much of the fruit. This has also occurred in connection with later shipments, causing a good deal of waste. As yet the disease has not been diagnosed. The supplies have been in excess of the demand—largely because of the very cold weather—opening selling rates were up to 1/- for the best repacked ripe lines, but with increased consignments, prices declined sharply to 6/- to 8/- per half case. Three shipments of West. Tomatoes

MELBOURNE CELERY MARKET.

The Melbourne Celery market was reasonably firm throughout July, when price levels were much more satisfactory than at any other period during this season. The market was assisted considerably because supplies from Adelaide were reasonably light, and the fact that vegetables of all varieties were in rather light supply, with consequent high prices. On the other hand, better prices for Celery were not obtainable because, in the main, the general quality was indifferent, much of the Celery being far too green. This was, of course, caused by climatic conditions in growing areas, which made "blanching" exceedingly difficult. Melbourne Celery

Tributes to the late Mr. W. J. Kimber-(continued

Murray, not to mention other areas. | the betterment of conditions or The difficulty has not been quite so great the last few years owing to heavy exports to New Zealand.

The late Mr. Kimber took up his duties at a time when Australian markets were mainly relied upon to absorb the increasing citrus production. The endeavour to get a fair return for the grower while the market was glutted and often demoralisations are which our late Scarting. ket was glutted and often demoralised, was one which our late Secretary put his time and energy into, with the zest which characterised his efforts in many other directions. For some years, mainly due to his activities, the growers in Salisbury acknowledged their indebtedness to him for effecting rises in prices which made years welcome increases in in him for effecting rises in prices which made very welcome increases in income. The late Mr. Kimber was a source of valuable information, which was always readily available to all enquirers, and nothing ever seemed too much trouble to him in his constant desire to give assistance to those in the industry. In co-operation with Mr. McRostie, he has opened a profitable market in Melbourne for Poorman Oranges, which promises to make that branch of the citrus industry more payable than it has been the last few years.

That we shall miss Mr. Kimber as Secretary and as a friend seems superfluous to write. His best monument will be the expressed and silent regard in which he is held by all who were privileged to know him. We take off our hats to the memory

of a gentleman.-E. Moss, Secretary.

Torrens Valley Citrus Growers.

The late Mr. W. J. Kimber's work for the citrus interests of the Adelaide Plains was on a par with the work which he did for the larger number of growers comprising the whole of the South Australian Fruitgrowers' and Market Gardeners' Association.

When Mr. Kimber took up the work of General Secretary of the organisation, its affairs were at a low ebb, sation, its affairs were at a low ebb, membership was small and its voice carried little weight, but under his wise guidance it became a powerful body and he lived to see a very great advance in the general welfare of the industry in which his life's work was centred.

In spite of the enormous amount of detail work which his secretarial duties entailed, he was always willing and eager to do anything asked of him to assist in the smooth running of the various sections of the parent body, often at considerable inconvenience to himself. The citrus growers of the Torrens Valley will always remember his vital interest in their problems and very many valuable suggestions came from him, for

THREE VARIETIES IN ONE APPLE

Jonathan, Rome and David.

A N interesting freak was recently reported from Geelong. It appears that a Jonathan Apple tree, 25 years old, on the property of Mr. F. Mullins, at Leopold, produced an Apple which had three distinct varieties. Half of the Apple was a Jonathan, part of the remainder was a Rome Beauty and part a King David. Each section is clearly defined from stem to tip and as regular as if sections of the three varieties had been spliced into one whole interesting freak ties had been spliced into one whole fruit. It is stated that in the orchard the Jonathan trees are several chains away from the Rome and David trees.

increasing consumption of their ducts. Though often overtired flong hours at the office, he was always as the office of the same of the sa cheerful and happy to do the a little bit, and many a time he organised a general meeting or a bined meeting of growers when clination and reasons of health a clination and reasons of health in surely have advised a quiet ever by the fireside, but he never spanimself, and I sometimes won whether this zeal for his job not have been a contributing factor his untimely end. However, he can be in harness as I knew he wished do, and it now behoves all interest in the industry to keep his mem green by an endeavor to make keep the organisation in which was so interested, a "Powerful sociation with a fair deal for which was his aim at all times.

We mourn his loss, but he has We mourn his loss, but he has an organisation which stands a memorial to his energy and wise ministration, and though there we naturally those who, through disity of business interests, did agree with his opinions, there none who would not say "And passes one of Nature's great gentlemen."

F. A. Wicks, Secreta

Paracombe Branch.

I write a few words of appreciat concerning the services rendered the Paracombe Branch of Frigrowers' and Market Gardene Association by the late Secreta Mr. W. J. Kimber. Our Branch of formed in 1912, so you see we his been associated with the late Secreta dring his period of office, a know that our very existence is know that our very existence is result of his optimistic leadership self sacrifice. We acknowledge meforms brought about by Kimber's efforts.

As an Apple-producing centre obusiness is mainly directed local therefore the Paracombe Branch local that the contact with the late S retary which many other Section of the contact with the late S retary which many other Section of the contact with the late S retary which many other Section of the contact with the late S retary which many other Section of the contact with the late S retary which was a section of the contact which was a section of the were privileged to have.

were privileged to have.

We remember with gratitude help given in the preparation documents when building the Pa combe Fruitgrowers' Co-operal Society Ltd. packing shed. It was inspiration to see Mr. Kimbe pleasant face as he appeared at Apple packing competition in countion with the Torrens' Valley Schrexhibition. He presented the cove "Jennings Shield" to the winn school, the Association trophy to boy or girl who gained the high marks. We are thankful for what accomplished, and we regret his paing. He will be greatly missed. It his mantle fall upon some wor man.—A. E. Brealey, Secretary.

MEMBERS!

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F. & M.G. Society Ltd

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South Australia

Mid-Murray Notes

VO METHODS OF PRUNING - BUREAU ANNUAL EETING — THE NITROGEN CYCLE — LAND TREAT-ENT — PRUNING CHAMPIONSHIP — RENMARK'S COMMUNITY HOTEL.

of fruiting buds where cover we been consistently grown. ing Sultanas, there are two adopted, both having some-recommend them in special

ming Methods Described.

irst method is to leave only canes to enable the vine to a normal crop. It will be hat some vines of sub-normal are only able to carry 4 while good vines will carry 6

second method of pruning is second method of pruning is to deal with vines of excep-igor, in which case as many e left on the vine as can be within pruning radius, and by be as high as 14 to 16. t has been found that each is satisfactory provided it is itelligently, but it sometimes that a grower will adopt the system of pruning on vines of system of pruning on vines of y vigor only, with the result extra crop the vines are upon to produce will be of quality to those of a lesser of rods. Furthermore, in the case, the rods for the followar's crop will be found lackfruiting buds, by virtue of the at the sugars have been used nature the heavy crop, and not it remain to feed the embyro which should be forming in d at the time of year when is maturing. The careful will on no account allow his o overbear, because a reaction will on no account allow his o overbear, because a reaction evitably follow in the next Brown stains on most of the ndicate that an attack of may be expected during this, if the weather is characby intermittent rain.

e is also more than a sugges-at the same applies to Black at the same applies to Black Sultana rods trailing on or he ground are pitted, with markings, which indicates pores are in abundance and of producing a good deal of e should a wet Spring follow. having used the acid-iron treatment when a Spring in-on is anticipated, I have now ned this in favor of spraying couble-strength Bordeaux mixned this in favor of spraying couble-strength Bordeaux mix-rior to bud burst, and follow with ordinary strength soon the new bud is about 6 in. Unless the weather is par-ly bad, the next spray is given fter the fruit is set, to which ed arsenate of lead as a set ainst the grub of the Light Apple Moth, and last year col-sulphur was added to the ux bunch spray as well, to the effect of oidium.

eport of Annual Meeting.

ving is now in full swing down while examining the eneral appearance of vines, that all varieties are in good and should show a good crop coming year. Sultana canes Giles. This trophy has now been well as the strophy has now been with the sure of the strophy has now been well as the strophy has n won three times and is now the property of the winner. Hot Dipper Sultanas, L. Le Leu; Currants, D. Winder. This trophy has been won outright by Mr. Winder.

Creation of Soils.

Following the distribution of prizes, Following the distribution of prizes, Mr. O. Gepp, B.Ag.Sc., Agricultural Adviser to the Nitrogen Fertiliser Co., gave an address on the nitrogen "cycle" in nature. The speaker dealt with the creation of soils right from the beginning of time, and explained how the weathering effect on rocks, plus the effect of the rays of the sun, frosts etc., gradually disintegrated frosts, etc., gradually disintegrated the rock particles, which in this way formed the basis of all soils.

As plant life came into the soil, As plant life came into the soil, organic matter gradually became incorporated with the soil particles. A fertile soil is more than a dead mass of rock, with the addition of organic matter, but is also the home of countless millions of different forms of microscopical organisms, which we call bacteria for the sake of simplicity. These bacteria perform a very important part in the fertility of the soil, said Mr. Geod. fertility of the soil, said Mr. Gepp. After dealing with the necessary mineral plant foods, the speaker illustrated, by means of a blackboard, the rise and fall of the nitrogen availability to plants of various kinds at different times of the year.

Mr. Gepp quoted from results obtained by the Waite Research Institute in Adelaide on their work of nitrate determination as affected by clovers and cereals, and further results on nitrate fluctuations were quoted from research work at the Merebein C.S. & I. Research Station, showing that a definite nitrate shortage existed in early Spring, from bud burst until the nitrates from cover crops became available in November. A vote of thanks was in November. A vote of thanks was moved and seconded by Messrs. B. Davies and R. Fisher to Mr. Gepp for his extremely interesting

Land Treatment.

Some amazing results have been achieved by a few growers on land considered too poor to even offer an economic proposition on Block E in the Renmark Irrigation Area.

When the land was originally allotted no indications were evident that the land possessed a hard pan almost impervious to the effect of irrigation water, and root action. After many years of unsuccessful working, the land was classed as uneconomic, and many acres went out of cultivation. Subsequently, however, many growers acquired blocks of this land adjacent to their own holding and applied heavy dressings of gypsum and planted lucerne. The lucerne had to be repeatedly planted to get a proper stand. After allowirrigation water, and root action. annual meeting of the RenNorth and Chaffey AgriculBureau was held on July 13.
lection of officers resulted in
Moss again occupying the
n of President. Mr. J. C. K.
m, Secretary; Committee,
C. Sowden, L. Le Leu, B.



ADVERTISING FRUIT. An attractive window display by C. H. Beardmore, Box Hill, Vic.

The growth and returns from this land is now amazing, producing 10 tons of Doradillos per acre, 2 tons of dried Sultanas and Currants per acre. After planting to vines, cover crops were planted in every row for highest points for the vine sections. crops were planted in every row for several years, and the land has now attained such a degree of fertility that it is considered necessary to confine cover cropping with legumes to every alternate row in future. The mechanical and physical condition of this call has undergoted and tion of this soil has undergone a re-markable change through the effects years of lucerne and cover cropor years of incerne and cover cropping, but it has meant hard work, of which the growers are justly proud, and the proudest of them is Mr. "Jim" Pethick, whose untiring labors has given him tangible results.

Pruning Competition.

The annual pruning competitions held in the River Areas, under the direction of the Agricultural Bureaux, are always keenly followed. This year's championship was held at Waikerie on July 1. Before entering the championship class, contestants have to win a position for qualification in the local centres, so that a tion in the local centres, so that a distinction of merit is stamped on each grower entering the champion-

The competition was held on the orchard of Mr. L. W. Andrew; Mr. E. Leishman acted as judge, with Messrs. J. Virgo and F. J. Elliot as consultative judges. The outstanding performance of A. E. Milde, of Mypolonga, in winning both tree and vine section is a performance rarely witnessed

The result of the championship is as follow:—

Vine Section.

	Gordos.	Currants	Sultanas	Aggrega
A. E. Milde	88	91	107	286
C. Curtis	88	90	106	284
W. H. Harris	91	92	9:7	280
T. Battams	85	90	103	278
R. Loxton	89	88	98	275
F. G. Fox	88	87	100	275
R. Isaacson	85	89	100	274
C. Bachm	89	86	98	273
K. Shepherd	90	88	91	269
E. Prosser	83	83	103	269
H. Tucker	88	82	96	266
J. Simpson	83	84	90	257
S. Sanders	81	80	90	251
m c				

Tree Section.

	Apricots.	Peaches.	Pears.	Aggregate
A. Milde	95	87	88	270
W. Bachm	92	87	85	264
T. Battams	80	89	87	262
E. Prosser	90	90	82	262
W. H. Harris	88	84	90	262
F. G. Fox	82	85	91	262
W. E. Rout	86	89	84	259

aggregate.

Community Hotel.

June 26 proved a red letter day in the history of Berri, one of our neighbouring irrigation settlements, this being the ceremony of the open-ing of yet another community owned ing of yet another community owned hotel on the River. Renmark was the first hotel in Australia to be owned by the community, the profits of which go to various charitable institutions, municipal improvements, educational purposes, etc. In recent years other hotels at Barmera and Loxton and Berri have been either built or acquired by the community from private owners. The ceremony of opening the Berri Hotel Association Incorp. was performed by Mr. A. J. Lee, President of the L.V.A.

Mr. O. E. A. Kunoth. Chairman of

J. Lee, President of the L.V.A.

Mr. O. E. A. Kunoth, Chairman of the hotel, in his opening address, mentioned the fact that the acquiring of the hotel by the community constituted the realisation of a dream of many years' standing.

The co-operative and community spirit is strong in all River settlements, and it is fitting that Berri should join the other South Australian irrigation settlements in the ownership of an hotel owned by the people for the benefit of the people. people for the benefit of the people.

Community Spirit.

A further incident to indicate the community spirit in these areas took place in the form of a working bee to help prune a block owned by a grower suffering from paralysis, and who has been unable to do any work

who has been unable to do any work for over a year.

About thirty growers met at the block of Mr. Archie Braund last week and finished his pruning in a day. Such an act cannot be gauged by monetary considerations alone, but the underlying spirit of comradeship and willing help means a good deal to an afflicted man. Morning and afternoon tea was supplied by Mrs Braund and the neighbouring ladies.—"Nemo."

WOOD WOOL
Pinest Grade for Export Fruit.

STRAWBERRY BOXES.
and Fruit Containers. and Fruit Containers.

Prices and Particulars on Application to

AUSTRALIAN BERRY BASKETS CO. 175 Kent Street, Richmond, Vis. Tel J1263.

South Australian Fruit Marketing Association

Report of July Meeting

M. J. B. RANDELL presided over a full meeting of delegates at the meeting of the Executive Committee of the S.A. Fruit Marketing Association held on July 30. Those present were:—Messrs. R. G. Hannaford, A. O. Petersen, F. F. Redden, P. R. B. Searcy, H. N. Wicks, M. G. Basey, J. B. Randell, E. S. Mason, S. M. James, A. G. Strickland, D. Norsworthy, A. R. Willsmore, and the Secretary. Apologies were received from Messrs. H. J. Bishop, W. W. Miller and T. Playford. W. Miller and T. Playford.

Correspondence included:-

Letter from the Minister of Agriculture, advising that the Government grant to the Apple and Pear Publicity Fund had been increased from £150 to £350, and that the Commonwealth had advised that they would pay a £1 for £1 subsidy on the £350 and also on the £150 to be donated by this Association.

with which an appeal was pending the High Court of Australia, and asking in view of the fact that they would be a considerable amount short of their costs, that we allow our contribution to stand. It was agreed that this should be done.

Letters from the Australian Apple and Pear Export Council, enclosing report from Mr. J. B. Mills, from London, also a report and minutes of nated by this Association.

Letters from Department of Agriculture, enclosing 25 copies of extract from Journal of Agriculture dealing with shipment of Williams Pears from with shipment of Williams Pears from this State to the United Kingdom during February last, also sets of trade publicity material designed for use in advertising Australian products in the United Kingdom. Another letter

Items to be set out in the form of resolutions. Members were asked to bring forward at the next meeting matters they desired to have considered at the conference.

The Secretary read minutes of meetings of the Advertising Sub-Committee for the information of members, together with correspondence in regard to the various forms of advertising in operation and pending. It was resolved: "That the Committee approve of the recommendation of the Advertising Sub-Committee, that the Association should meet the cost of purchasing and distributing Apples and recipe books to schools.

Mr. H. N. Wicks reported that at Mr. H. N. Wicks reported that at the meeting of the Research Sub-Committee reports had been received in regard to Geeveston Fanny and Willie Sharp Apples, and matters dis-cussed were: Spraying programmes, manurial experiments, control of pests. In regard to hail insurance this matter was being actively taken up and every endeavor was being made through the Agricultural Bureau to devise some workable method of arranging for insurance. Information was also being obtained from the other States.

Mr. Price had given a demonstration of a patent stud for preventing movement in 2 and 3 piece timbers on cases. Members were very impressed with the invention, and Mr. Price was arranging to demonstrate it at the annual Apple and Pear Council Conference in Sydney in October. It

was considered by members that viding the supplies of local twere available, it should prove most valuable invention.

Report of June Meeting.

The President, Mr. H. J. I occupied the chair. Minutes May meeting were approved, a

Publicity Campaign.

Correspondence with the Mini.
Agriculture in regard to the contribution towards the App. Pear Publicity Campaign was mitted, also letter giving infor-in regard to the fruit at preser in cold store and in district which, together with the actu port and estimated consumption port and estimated consumption the beginning of the season, s that the total marketable or Apples was 723,000 cases, and grant had been based on a fig 460,000 cases, it was considere an additional grant should be n

The matter was discussed at land the following resolution finally carried unanimously:—'if the South Australian Govern will increase their contribution to Apple and Pear Publicity Camp to £500, the South Australian Marketing Association will pro£150, conditionally, that this amplus the Commonwealth subsidy used in this State for advertis It was then agreed to ask Mr. ford if he would arrange for Minister of Agriculture to receive deputation, consisting of him deputation, consisting of hin Messrs. H. J. Bishop, J. B. Ra and H. N. Wicks to enable the resolution to be placed before Minister.

It was also agreed that the tary should write to the Apple Pear Export Council advising Pear Export Council advising was being done in regard to tryi get an increased grant from Government, and requesting infition as to when the advertising paign would commence. Also to out that members assume that amount made available in South tralia, plus the Commonwealth sidy, would be spent for advert in South Australia. It was po out that South Australia would n likely to get any advantage froi creased consumption in the Sy market, and it was essential to

market, and it was essential to increased consumption in South tralia to absorb the S.A. surplus Advertising Committee.

It was unanimously agreed the advertising committee be formed sisting of Messrs. H. J. Bishop, Redden, H. N. Wicks, J. B. Rai F. B. James, P. R. B. Searcy. Committee to deal with the que of advertising as soon as the n sary funds are available.

Research.

Research sub-committee rep that Mr. Strickland had agreed his Departmental officers slundertake to fill gaps with wood and by means of rubber stamy dicate on the label that the cal of short count, due to inspectio quirements, where it had been r sary to take fruit out of cases cut for examination. As the Dement had no responsibility in matter, Mr. Strickland asked the Association arrange for the supple wood wool and rubber stamps, research sub-committee recomment he approval of this suggestion the meeting agreed to this.

Other matters considered we Hail Insurance: Information obtained from all the States in r Research sub-committee rep

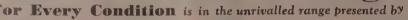
obtained from all the States in r to this matter

Geeveston Fanny Apples: A is being obtained from Tasmar the results in the past from

Apple.

Willie Sharp Apples: Mr. Sland is obtaining information froother States and New Zealand submission at the next meeting

The Perfect Plough For Every Condition is in the unrivalled range presented by



Sunshine Massey

2-Furrow

Sunbird



Mouldboard Ploughs . .

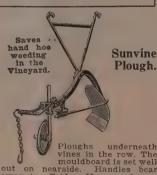
1, 2, or 3 Furrows.

Sunbird Ploughs are popular for general ploughing in most varieties of soil, and the exceptional amount of clearance, coupled with the design of the mouldboard, which turns the sod without packing it, makes them specially suitable for turning in weeds or green manurial crops. They are extremely strong, and have polished mouldboards 19 inches long. Single-furrow has shifting handles for ploughing close up to trees and vines; or fixed handles if preferred. Furrows 9 inches wide to 6 inches deep.

Two and three-furrow sizes also plough close to trees. Light draught; easy to handle.



Light in draught. High arch beam. Skid adjustable to give more or less dip to the share. The mouldboards come together with a perfectly flush edge. Drills can be opened up to any depth from 6 to 12 inches, as required. Good draught adjustment. Wing extensions for deep work available. Tractor Pull can be fitted.



Ploughs underneath vines in the row. The mould on rearside. Handles bear away to offside. Horse and man walk clear. Adjustable fender rod protects vine stems. Weeder blade available, also long handles for orchard work.

Special leaflets give full details of each implement. Ask the local agent, or write direct.

Harris Sunkid Pony Plough



Very high clearance. Splendid for hilling up potatoes, maize, cotton, etc., and for general garden and small farm work. Cuts furrows 7 inches wide. Overall length, 6 feet.



Single-Furrow Plough.

A high clearance plough for deep work. The board has a very "lazy" turn at the top, causing it to scour well. Particularly recommended for work in clay and other heavy



New Model Orchard Plough.

With Movable Handles and ample draught range, both vertical and horizontal. Splendid for orchard, vineyard and field work. Has 21 in clearance at throat. Mouldboard, 22 in. Share, 6 in. or 8 in.



Massey Harris No. 10. Two-Horse General Purpose Plough.

Does splendid work in hard soils. Cuts furrows 7 to 9 inches wide, 5 to 8 inches deep. Good clearance. Has wooden handles.

H. V. McKAY MASSEY HARRIS PTY. LTD.

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Jurrumbidgee Irrigation Areas

listory and Development

Fruitgrowing Industry

y Development in the Production of Citrus, Deciduous and Vine Fruits

THE GROWTH OF THE FRUITGROWING industry in the Murrumbidgee Irrigation Areas of New South Wales, like other irrigation areas of the Commonwealth, is a fine example of the value of intense culture. It is estimated that ten acres of irrigated intense fruit culture employs as many persons as 5,000 acres of dry

pasture.

Some idea of the debt owing by Australians to pioneers of water conservation and irrigation in Australia is gathered from the flourishing orchards and cities which have sprung up in the Mirrool and Yanco Irrigation Areas of New South Wales. The capital invested by the Water Commission in these areas is approximately eight million pounds. The annual production from farms on the M.I. Areas is now over one million pounds.

channels provide municipalities with water for pumping into the towers from which the towns are reticulated. The capital invested by the Water Conservation and Irrigation Commission which a large concrete dam en constructed at Burrinjuck, a capacity of 33,612,671,000



PICKING GRAPES FOR THE WINERY.

annual production of wines on the Areas is estimated at 1½ million gallons. (Photo. by John P. Carney, Griffith, N.S.W.)

greater volume of water is im-ded than is contained in the ey Harbor.

huge enterprise was comis huge enterprise was compet in 1905 and seven years afteras the first water was supplied
and at Yanco, about five miles
a of Leeton. Water is stored
cipally during Winter and Spring
released during the irrigation
ons, September to April inclusive.
water passes along a river
mel for about 240 miles to Beremwhere a weir across the river where a weir across the river rts it into the main channel, h at its offtake has a capacity th at its offtake has a capacity 600 cubic feet per second. The a channel has been completed eyond Griffith, a distance of 96½ is from the offtake. These waters carried by gravitation per chanto the rice fields, citrus groves, ands, lucerne paddocks and ral farms at Leeton, Griffith and counding districts. In addition, the

feet (771,641 acre feet); the £1,734,255; Berembed Weir and Main mum depth of water is 200 feet, Canal, £1,338,009; development works, trea of the water surface 12,780 channels, drains and roads, £2,446,923; land acquisition, advances to settlers, factories for settlers' produce, muni-



cipal undertakings, rolling and working plant, stocks, etc., accounting for approximately £2,400,000.

Development of Fruitgrowing.

The adequate supply of water, combined with other natural facilities have resulted in the steady development of the production of citrus, deciduous and vine fruits in these areas At the present time there are approximately 19,823 acres under orchards and vineyards in the Murrumbidgee Irrigation Areas in various stages of growth made up as follows:—Deciduous, 7,798 acres, citrus, 5,903, and vines, 6,132. Latest fruit production figures available are for the year ending June, 1936. These are set out as follows:-

Citrus Fruits.

The estimated production of citrus fruits during the year under review was 620,400 bushels, made up as follows. *Yanco (includes Leeton and surrounding districts); †Mirrool (includes Griffith and surrounding districts)

	*Yanco.	†Mirrool	
Type.	Area.	Area.	Total.
**	Bush.	Bush.	Bush.
Washingto	n		
Navels .	106,000	195,000	301,000
Valencia,			
Late	98,000	126,200	224,200
Lemons .	37,000	25,000	62,000
Other	10,200	23,000	33,200
	****		620,400
			, 200

Deciduous Fruits.

Apricots.—The following are the approximate yields for the 1935-36

		Yanco.	Mirro	ol
		Area.	Area.	Total.
		Tons.	Tons.	Tons.
1	Sold for fresh			
ı	fruit trade .	750	440	1,190
	Apricots, dried .	210	870	1,080
	Sold for canning			
ı	purposes	1,400	1,444	2,844
l	-			
		-		5,114

Peaches. — The Peach Crop was very satisfactory, although not a record for the Areas. The total yield was as follows:-

Canning fruit .	Tons.	Area. Tons.	Total. Tons.
Dried fruit Fresh fruit	30	190	220
			9,849

-The production was esti-

	Yanco	Mirro	ol
	Area.	Area.	Total.
	Tons.	Tons.	Tons.
Prunes (dried			
weight	109	448	557
Prunes & Plums			
sold fresh	170	40	210
_			
	pathogaliga	_	767

It has been proved beyond doubt that crops need something more than nitrogen, phosphorus, and potash. Natural healthy growth depends upon other elements as well—boron, iodine, and magnesium, for example. That's where CHILEAN NITRATE scores. Being a natural fertiliser, it contains these other elements in addition to nitrogen. And its nitrogen is in the nitrate form—just as plants take it up.

In using CHILEAN NITRATE you can be sure of getting full value for your money. Every ounce of nitrogen applied is taken up by the crop—there is no waste. And remember, CHILEAN NITRATE is alkaline. It keeps the soil sweet and saves liming costs.

> PURITY, 98/99 % 100 % EFFICIENT.

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HEAD OFFICE: MARTIN PLACE, SYDNEY Commissioners: C. R. McKerihan (Pres.), H. Rogers, P. Kearns

Consign Your Fruit to

(Successor to Stimson & Firth)

Highest Prices

Prompt Returns

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Cables and Telegrams: "LIONELOCKE," Sydney.

Introducing-THE NEW BUZACOTT 454

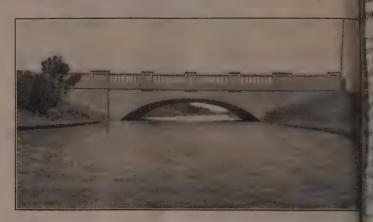


Built expressly for the Orchardist who must have the best at a moderate price, the NEW 454 FOUR-WHEELER has all the excellent mechanical features of the famous 454 W Two-Wheeler PLUS a Four-Wheeled Transport designed to meet all requirements.

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WAGGA - ORANGE - LISMORE - GRAFTON

AREAS AND PRODUCTION—(Continued).



Bridge over the Main Irrigation Channel at Griffith,

the season under review were as fol-

	Yanco	Mirrool	
Type.	Area.	Area.	Total.
	Bush.	Bush.	Bush.
Apples-			
G. Smith .	42,000	78,000	120,000
Other var.	7,000	12,000	19,000
Pears—			
	Tons.	Tons.	Tons.
Canning .	280	120	400
Fresh fruit	184	100	284
			684
			004

The Wine Industry.

Owing to the favorable conditions experienced by vignerons, the yield of wine Grapes was 14,561 tons, comexperienced by vignerons, the yield of wine Grapes was 14,561 tons, compared with a harvest of about 10,000 duced on the Areas during the 1935-36, compared with the acceptance with a harvest of about 10,000 production for 1934-1935:—

Pome Fruits.—Estimated crops for tons for the previous year. App mately 1,893,000 gallons of were made. The quality of the was excellent, and the wineries growers an average price of an extension of the previous year. App mately 1,893,000 gallons of were made. The quality of the was excellent, and the wineries growers an average price of an extension of the previous year.

The crop was vested in the Grapes Marketing Board, which exercised control over the industry the Murrumbidgee Irrigation Arsince December, 1932.

Apart from the Board's work Apart from the Board's work improve and stabilise prices, a g deal of effort has been put forth wards the improvement of the dustry generally.

Dried Fruits.

The following is the estim

	1934-35.			1935-36.		
		Estimated	1		Estima 3	
		Value.			Value	
Dried Fruit.	Cwts.	£		Cwts.	£	
Apples and Pears	79	120			- 3	
Peaches	982	1,350		882	2,05	
Apricots	4,066	12,198		3,600	12,60(
Prunes and Plums	9,501	13,300		11,140	16,71	
Nectarines	22	33		60	14	
Sultanas	1,845	2,583	71.	7,680	11,52	
Lexias	82	117		220	30%	
Currants	796	1,114		1,400	1,750	
Figs	402	362		1,000	90	
Almonds	1,442	5,793		. 3,000	12,150	
Totals	19,217	36,970		28,982	58,130	

"The Area Gypsum Mine"

Highest Grade

Unlimited Quantity

Perfect Running in Drill.

Quotes for Train Loads.

H. V. RUSHBY, Griffith, N.S.W.



Somary of the Types of Fruits and Varieties wn in the Murrumbidgee Irrigation Areas

ieties of Fruits Grown

Fruits .-- Oranges (Washingels, Late Valencia), Lemons and Lisbon), also Man-haddocks and Citrons.

s are represented by Phillips, Queen, Pullar's Cling and

ts .- Soil, cilmate and other ts.—Soil, cilmate and other is are most suitable for the al culture of Apricots, and it ted that the Murrumbidgee in Area is now the largest f Apricot production in the Empire. Large quantities of Apricots are forwarded to and Sydney markets for the first trade apart from the

but for prices obtained on shipments forwarded to Great Britain and the least. For the year ending June, 1936, the demand for Pears of the Williams variety for canning purposes was in excess of supply. Considerable new plantings have been made, but it is estimated it will be several years before the production of the Management of the production of the variety for canning purposes was in excess of supply. Considerable new plantings have been made, but it is estimated it will be several years before the production of the M.I.A. is sufficient for the needs of the New South Wales canneries.

> Almonds, Figs and Quinces are also Almonds, Figs and Quinces are also grown quite successfully by various growers. Varieties of Quinces grown are Van Diemen's and Masters Early. In addition to the fresh fruit trade, Quinces are dried and quite a good sample is obtained. Quinces are cut into slices, dipped into salt water, sulphured and put through the dehydrator. Almond plantings are covered by the varieties Brandes Jordan, I.X.L. and Nonpareil.
>
> Figs are grown quite successfully

Figs are grown quite successfully and find a ready sale. Varieties planted include Adriatic, Smyrna and

Rice Growing.

h fruit trade, apart from the state are dried and sold for purposes. The varieties and Irrigation Commission some years ago in the growing of rice, this



CULTIVATING A PEACH ORCHARD. proximately 4,000 acres are devoted to Apricot and Peach growing.

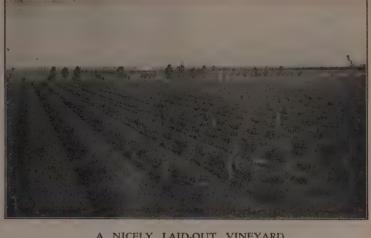
tisfactory for Grape growing, addition to growing vine fruits as Sultanas, Currants and the Chanez variety of Grape vn satisfactorily and shipped s in considerable quantities, larly to Eastern ports.

annual production of wine in the Areas is estimated at imately 1,250,000 gallons. are five wineries, in addition to ous individual wine-making for the treatment of the Grapes ed, which average about three-ts of the total production in

es. — In both Yanco and areas prune growing is ing, quantities being produced ving purposes and others are fresh fruit. D'Agen and Robe geant are the varieties which is the best results. ing the best results.

Fruits. - Apples and Pears reasing in production in these the Granny Smith Apple par-y giving good results, not om a production point of view,

farms, bearing in mind the Austra-lian market requirements. The fact that the annual sowing is now gene-



A NICELY LAID-OUT VINEYARD. Over 6,000 acres are planted in the Areas to Table, Raisin and Wine Grapes.

rally in the vicinity of 20,000 acres, yielding some 40,000 tons annually, streets represent the spokes which supplying the whole of Australia's requirements and leaving a small exportable surplus, is an indication of the rapid strides which the industry has made since its inception.

perfect natural drainage. The main streets are named Pine-avenue, Wade-avenue, Kurrajong-avenue, Chelms-ford-place, Wilga-street, Grevilleastreet, Willow-street.

A Rice Research Station, established by the Department of Agriculture at Yanco, is giving careful attention to such matters as seed selection, weed control and rice farming methods generally. It is estimated that since the rice industry commenced in these areas approximately. ed in these areas, approximately 277,880 tons have been produced, the gross value of which is estimated at approximately £2,668,600.

General Population.

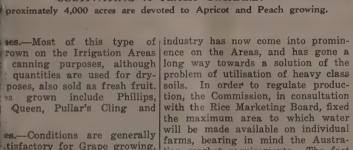
The estimated population of the Murrumbidgee Irrigation Areas is 16,900; approximately 8,000 reside on the Yanco Irrigation Area, the centre of which is Leeton, and 8,900 on the Mirrool Irrigation Area, the centre of which is Criffith which is Griffith.

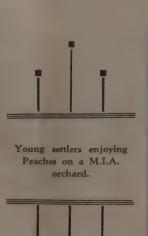
The important part played by irrigation in decentralisation is amply demonstrated in the two flourishing towns which have sprung up at Leeton and Griffith. The town of Leeton is situated about 370 miles South-west of Sydney, and 265 miles north of Melbourne. Leeton is 460 feet above sea level, with Griffith 35 miles away to the north-west, having a fall of 1 ft. to the mile to the latter place. It will easily be realised from this how all this country lends itself to irriga-tion, add to this its sunny climate and fertile soil, and the value of these areas will be realised.

Circling the hub from small to large are streets and avenues intersecting and connecting all the main thoroughfares. These crescents are named after the trees by which they are planted, namely, Jarrah-street, Cedar-street, Palm-avenue, Acaciaavenue, etc.

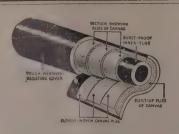
Leeton rightly claims a model layout, with all parts easily accessible in out, with all parts easily accessible in every direction. One very important factor to remember is that this beautiful garden town has been built up directly through its surrounding rural industries, comprising the immense fresh, dried, canned fruit and citrus industry, wheat, rice, wool, meat, poultry, butter, etc. It has been asserted that ten acres of irrigated intense fruit culture employs as many persons as 5,000 acres of dry pasture. dry pasture.

The outstanding buildings in Leeton of interest to fruitgrowers are the large canning factory capable of turning over 120 tons of fruit per day and the cool store attached to the cannery, which has a capacity of 30,000 cases. The Leeton Cannery was taken over from the Government by the growers from the Government by the growers some two years ago, and is now controlled by the Leeton Co-operative and Cool Stores Company. The cannery processes approximately 200,000 cans per day. The products of the cannery, which include canned fruit, jam and sauces, are marketed under the Golden Areas brand. A large export trade has been built up with the United Kingdom as well as with New The layout of the town of Leeton may be likened to a wheel with the monument as its hub. This is near the centre and highest point and the land slopes away in all directions, ensuring matter that the united Kingdom as well as with New Zealand and Canada. The present directors of the company are G. Enticknap (Chairman), J. Baulch, R. Mallinson, J. C. Thorne, Y. Longhurst,









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Specially Reinforced with Plies of Closely Woven Canvas.

RED OUTER COVER AND RED BURST-PROOF INNER TUBE.

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A SECTION OF THE LEETON CO-OPERATIVE CANNERY.



The Leeton Cannery is capable of producing over 120 tons of fruit per d Since its establishment £659,000 have been paid to growers for fresh fruit a vegetables.

C. R. Glover, R. Lang,—Coombs (Secliand these are equipped with all the retary and Manager).

A number of co-operative and private packing sheds are established, processing all classes of fruits.



The Soldiers' Monument, Leeton, and portion of the Township.

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CASES, CRATES, AND SHOOKS

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TH BROS. LT

BOTANY ROAD, WATERLOO SYDNEY, N.S.W.

City Markets Depot: CORNER HAY AND PIER STREETS, HAYMARKET PHONES: Mascot 278 and 192 Irrigation Area Enquiries to Josling and Snaith, Local Agents, Griffith.

Development of Griffith and rrounding Areas =

CITRUS AND DRIED FRUITS, APRICOTS, PEACHES, NECTARINES, PRUNES, GRAPES, APPLES AND OTHER FRUITS INCREASING IN PRODUCTION EACH YEAR.

cuated about 35 miles from on is the town of Griffith. Its y laid-out streets and public lings give an air of prosperity h has been built up and supported he flourishing orchards which all located close to the town er. Here again irrigation has atted the development of fruit-ving, and made possible the proion of citrus, vine and deciduous s of the highest quality.

ithin approximately five miles of ath have sprung up other fruit is such as Wyangan, Ballingall, bangera, Bilbil, Yoogali, and wood, all fruit areas of no mean

egetable growing is another pro-lle sideline which has been added the orchard, and Peas, Beans, toes and Tomatoes are grown nsively and find a ready sale in Sydney markets.

room Millet is another industry hese districts. Bundles are sent broom and brush factories, while stems are used as fodder for stock the seed for feeding poultry.

over crop and heavy manuring grammes are evident throughout districts, and the excellent yields ch have been obtained from even ng orchards amply bear out the ne of heavy dressings of sheep nure, artificial manures and sul-te of ammonia, which are applied h year in most properties.

he programme of one successful hardist which is typical of others the district was 1 cwt. of each er and sulphate of ammonia, rnated with ten tons per acre of ep manure, this being in addition the regular sowing of cover crops

in outstanding attraction at Yooi, situated four miles from Grifis the citrus grove of Mr. J. E. is the citrus grove of Mr. J. E. ard. The production and quality fruit on this grove has been phenosal, when the first plants reached ven years old the average yield tree was 11 cases, which is conered a high total for a plantation any age. Heavy fertilizing by ep and other manures, intense culation. ample drainage. expert ation, ample drainage, expert uning, systematic fumigation and too much watering have been re-nsible for the success of this eve, which covers about 90 acres. orchards in the district of

Dried Fruit Racks.

gali are producing Apricots, Peaches, Nectarines, Prunes, Grapes and Apples, thus proving the versatility of the land in the irrigation areas.

EXTENSIONS OF GRIFFITH AREAS.

With the extension of water and other facilities beyond Leeton and Griffith, further areas of lands have been cultivated—new districts have sprung up including Ballingal, Wyangan, Yoogali, Bilbul and Hanwood: they have progressed steadily wood: they have progressed steadily until they are now producing each year larger quantities of all classes of fruits. A summary of some of these districts is set out herewith.

Ballingal extends west about six miles from Griffith, and excels in citrus fruits, the rich soil, natural drainage and freedom from flood provides ideal conditions for citrus growing. In recent years this district has also established a name for itself in vegetable growing, Peas are being grown successfully, and in larger quantities each year.

At Beelbangera many of the growers are keen on viticulture, and a number of large vineyards have been established here.

Wyangan: Although citrus is grown largely in this district it has been proved that Wyangan is also suitable for growing Apples, Prunes and Quinces. Apricots and Peaches are also grown and some growers have great faith in the future of Pear growing in this area, particularly Pears for canning purposes. W.B.C. and Packhams Triumph, thrive and bear well, producing fruit with good



Interior view of Leeton Co-operative Cannery.



Bilbul, which ajoins Beelbangera, which the main irrigation channel also produces large quantities of wine Grapes, the Beelbangera winery, which is close to the railway station, takes most of the growers' wine grapes. The wine Grape growers of this and other districts of Griffith are well served by wineries: In addition to the Beelbangera Wine Growers' Coop. Society, Penfolds are established about a mile east of Griffith and op. Society, Penfolds are established about a mile east of Griffith, and Messrs. McWilliams, of Hanwood, also have a winery. The districts of also have a winery. The districts of Beelbangera and Bilbul do not confine the whole of their activities to wine Grapes, for in addition they grow canning Apricots and Peaches, Quinces, Apples (Granny Smith and Delicious), and other fruits.

Hanwood, known as the southern suburb of Griffith, with its red and chocolate lands, has many established orchards, vegetable and dairy farms. The fruits grown are Grapes (Corni-chon, Ohanez), Sultanas, Gordo, Blanco, Zante Currant, and wine varieties. Grapes not otherwise processed or marketed, are purchased by the wineries. Phillips, Golden Queen, Pullars Cling and Elberta Peaches are grown here in addition to Oranges, Grapefruit, and Lemons.

The indications are that these districts, like other parts of the Murrumbidgee Irrigation Areas, will shortly be producing quantities quality Apples and Pears.

Yenda is situated about twelve miles northeast of Griffith, through don).

REVIEWS OF INDIVIDUAL PROPERTIES AND CULTURAL METHODS OF ORCHARDISTS IN LE'ETON, GRIFFITH AND SURROUNDING SUBSEQUENT THE "FRUIT WORLD,"

oils, general merchants, garage and general engineers, case makers, storers, packers under "Own Case" label brands.

The normal annual output of the Society which has 200 shareholders is £60,000. The present directors are Messrs. E. J. Hudson (chairman), L. H. Bridges, G. H. Bromfield, A. L. Gordon, O. J. Longhurst, R. W. Lockman, G. G. Moss; manager (P. H. Rutlidge), and secretary (L. J. Rydra)



are "nearest to the ideal spray" because they have every modern improvement in spray plant design: Detachable cylinders with porcelain linings—specially designed adjustable plungers— all working parts totally enclosed and running in a bath of lubricating oil—no glands to leak.

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Budge Refrigeration



Twin-cylinder Pressure-lubricated Ammonia Compressor.

BUDGE Refrigeration Plants for Fruit Cool Stores from 500-case capacity as supplied to Mr. S. R. Mort, Griffith, N.S.W., up to 100,000-case supplied to Port Huon Fruitgrowers' Co-op. Assocn. Ltd. Other installations include Bender & Co. Pty. Ltd., Launceston, Tasmania, 25,000-case capacity; and Orange Fruitgrowers' Co-op. Cool Stores Ltd., 40,000-case capacity.

James Budge Pty. Limited REFRIGERATION ENGINEERS,

McEvoy Street, Alexandria, Sydney, N.S.W.

Established 1890. -

Around the Packing Houses

The rapid growth of the fruitgrow- in packing house machinery, toget ing industry in the Murrumbidgee Irrigation Areas created the necessity and expeditious grading, packing a providing for the preparing, packof providing for the preparing, packing, processing and marketing of the many varieties of fresh, dried, canned and citrus fruits produced on the Areas. To cater for this important factor, packing houses have been established which embrace all the latest and most up-to-date equipment and up-to-date equipment and up-to-date is set out hereunder.

handling machinery



Interior view of portion of the Packing Shed of the Griffith Co-op. Co. Ltd., Griffith.

Griffith Producers' Co-operative Co. Ltd.

The Griffith Producers' - Co-operative Co. Ltd., was formed in 1922, for the purpose of selling fruit and pro-duce for its members.

The company has made steady progress since its formation, and there are now approximately 400 shareare now approximately 400 share-holders, with funds in the business totalling over £30,000.

The company packs and sells each year between 350,000 and 400,000 bus. citrus fruit, comprising Washington Navels, Valencias, Lemons, Mandarins and Grapefruit. Granny Smith Apples are also becoming a big factor in the production of Area farms, and quite a lot of high-class fruit of Apples are also becoming a big lactor in the production of Area farms, and quite a lot of high-class fruit of this variety has been exported by the company to England during the past few years with satisfactory results to the growers.

Citrus fruits, Apples and Pears a sold under the company's well-knov labels, "Excello" and "Cello."

In addition to fruit packing activ ties, the Griffith Producers' Co-ope ties, the Griffith Producers' Co-oper tive holds contracts with Henry Jon. & Co. (Sydney) Pty. Ltd., for t supply of canning Apricots, Peache Pears, Grapes, Figs, Quinces and T matoes. The value from this sour this season was in the region \$50,000. Most of this fruit is proceeded in the company's cool story before being sent to Sydney.

before being sent to Sydney.

Dried fruits are also handled, specialty being made of Prung These are graded at the Griffith Shand forwarded to Sydney, where to company, in association with the Young District Producers' Co-oper tive Society, own a processing as packing plant, and trade under the name of the Prunegrowers' Co-oper tive Union Ltd. The Union sold layear 1,200 tons of Prunes. The totage for sale this year is greater a several hundred tons.

A big business is done with meters.

A big business is done with mer bers in supplying them with packing bers in supplying them with packin cases, paper, chaff, spray material fertilizers, horticultural machine etc. The company has an extensive fumigation plant, and last ye fumigated 55,000 citrus trees for imembers at a minimum cost. For gangs with 30 tents each were exployed throughout the fumigation period. period.

The Griffith Producers' Co-op. al conducts practically the whole of the bulk loading of the settlers' fruit for the Sydney market, and last yethandled 858,501 packages, totallir 19,287 tons, on which it paid ov £25,000 freight to the N.S.W. Rathers of the sydney of the settlers of the

ways.

The present directors are Mess V. C. Williams (chairman), W. Elder, P. C. Cox, J. C. Thorne, A. Lenehan, and T. B. Oakes. Mr. Mallinson is general manager, Mr. Mallay, manager of the packing sh sent directors are Messi Morley, manager of the packing she Mr. R. Macfarlane, manager of the trading store, and Mr. J. Reidy, a



Every time water runs through irrigation channels it dissolves some valuable plant-food. Some of this reaches the roots; some is lost. Trees cannot flourish in a "washed-out" soil. Replace these losses by the frequent and liberal

WELL-BALANCED COMPLETE FERTILISER. Full bearing orchards or vineyards need annually at least 2 cwt. of Potash per acre or the equivalent amount in a mixture—10 cwt. per acre of 2:2:1, for example.

For further information write to:

PACIFIC POTASH LIMITED

Research Service, Box 3843 T, G.P.O., SCOTTISH HOUSE, 19 BRIDGE STREET, SYDNEY

of fruit is kept, and a distinctive est" label is placed on each case

2 Selbest Packing House, owned nanaged by Mr. F. Newton, was lished seven years ago, is in the off Griffith. The packing depend has an area of 8,000 square with a case making plant at ear and the offices are situated irs. A complete record of every of fault in look and a distinctive in the case of Apples—mostly Granny Smith; 10,000 cases of Peaches; 8,000 cases of Grapes the varieties being Ohanez, Cornichon and Waltham Cross; 5,000 cases of Pears—varieties—W.B.C. and Packhams; 5,000 cases of Apples—mostly Granny Smith; 10,000 cases of Apples—mostly Granny Smith; 10,000 cases of Peaches; 8,000 cases of Grapes the varieties—with a case making plant at varieties—W.B.C. and Packhams; 5,000 cases of Apples—mostly Granny Smith; 10,000 cases of Peaches; 8,000 cases of Grapes the varieties—with a case making plant at varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—with a case making plant at varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—with a case making plant at varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Apples—mostly Granny Smith; 10,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties—w.B.C. and Packhams; 5,000 cases of Peaches; 8,000 cases of Grapes the varieties with the case of Peaches; 8,000 cases of Grapes the varieties with the case of Peaches; 8,000 cases of Peac

Messrs. Joslyn and Snaith, who control the Murrumbidgee Packing House, handle various classes of fruit and their packing house is well equipped with all the latest in modern grading and packing machinery. For export fruit they use the "Navex" label.

e Leeton Fruit Distributors and ing Company, of which Mr. Attis the proprietor, is in Acaciage, facing the railway. This mg house is equipped with upte packing machinery and is a of industry, handling, packing consigning large quantities of and dried fruits for growers and rters. Fruit from this house is dunder the "Perfect-Pak" label.

e firm of Messrs. Greenwood and e firm of Messrs. Greenwood and at Leeton, was established in lary, 1934. Their activities ighout the year are set out as ws:—Navel Oranges are marketrom June to September (main; Valencia Oranges from August houses, decidency from August houses, decidency from August

fruit for the local markets this packing house is marketed the "Red Ace" brand. In their

Leeton are to be found many labels. For export Apples they use idual packing houses which grade, and handle fruit for growers in district.

Leeton Fruit Distributors and

The Craig Mostyn Fruit Packing Company at Leeton, is under the man-agement of Mr. Pilbeam. This company buys, packs, distributes and exports to various countries, specialising in trade with the East. For this trade the distinguishing "Cock" brand label is used. For consignments to the British market the "Supreme" brand label is used. The up-to-date grading and cleaning machinery in this packing house is capable of handling 1,000 cases daily. For green fruits a green label is used and colored wrappers for red varieties.

The Producers' Co-operative Dispruary; deciduous fruits, Apriand Peaches fresh, December to try; export Apples (Granny es), March, April, May; Ohanez S, March and April; export ms, May, June and July.

Tributing Society of Leeton, is a branch of this Co-op., which is established in Sydney and Melbourne. The manager is Mr. J. Alpin, and this Society caters for growers and exporters and large consignments pass tributing Society of Leeton, is a branch of this Co-op., which is established in Sydney and Melbourne. ters and large consignments pass through their huge packing house. The grading and processing equipment this packing house is marketed the "Red Ace" brand. In their t branch they are local repretives for Messrs. Paterson & Ltd., and the whole of their exfruit is marketed under the is of Paterson & Co.'s various "Comet" labels for Oranges.



ortion of Packing Shed of the Craig Mostyn Fruit Packing Co., Leeton.

asrs. W. Brown & Sons, of 15 | h-street, Lidcombe, N.S.W., have everal years been manufacturruit grading machines, starting a few small machines as a side-Such success has followed, that usiness has been converted into it grader factory, making these nes in all sizes, and other fruit-ing appliances, such as washing

eature of the Brown graders is ase with which the regulation of izes is achieved by the turning handle only. On the large in-dent control machine the roller ns are instantly operated, and etting shows on an indicator in of the operator. Any number s may be bunched to take a prerating size of fruit.



Modern methods of cultivation are followed in the M.I. Areas. The above picture shows cultivating operations in a Citrus grove.

Processing Oranges at Griffith

The introduction of the modern packing house has revolutionised the packing and preparing of fruits for marketing. Citrus processing plants now established in all the leading citrus districts handle, prepare and pack. Oranges and Lemons under expert scientific methods. The following article traces the treatment given to every case of Oranges which passes through the packing house of the fruit is wrapped, packed and the fruit is wrapped, packed and cases lidded and labelled ready for despatch to Australian or export mar-

ciety.

The waggon load of fruit stops on the weighbridge, the driver secures his ticket, and crosses the yard to the receiving depot, placing the cases of Oranges on a belt, which conveys them to the basement.

The operator here places them on to another conveyor belt, which automatically carries the fruit on to the open steel tipping elevators, which convey the Oranges above to the washing and drying machines, where the convey the Oranges above to the washing and drying machines, where the fruit is evenly fed to the first warm bath, passing along under steam sprays, playing on the fruit, then under a four winged revolving immerser which also controls the feed; the fruit then passes through a numerical statement of the fruit then passes through a numerical statement of the feed; the fruit then passes through a number of canals in which are revolving brushes, out into a similar bath, in which there is sufficient borax to give the fruit a bright appearance.

The Oranges are then carried over-

head on rollers, of the same width as the baths, through a passage equipped tion in 1935 was £11,500,000.

despatch to Australian or export mar-

The full capacity of this plant is 2,000 cases per eight-hour day. It is interesting to note that the fruit is not touched by hand after delivery to the receiving depot, until it reaches the packers' bench.

A BILLION POUNDS.

U.S.A. Dried Fruit Production.

U.S.A. Dried Fruit Production.
The figures covering the production of dried fruits in U.S.A. during 1935 give an indication of the size of the industry in that country. A total of 1,120,560,255 lbs. of dried fruits were produced, creating a record, or, if converted into short tons. the incredible quantity of 560,280 tons.

Prunes, 236,800 tons, and Raisins. 207,064 tons, were the chief high scorers with Apples, Peaches, Apricots, and Figs, in that order. The cash value of the dried fruit production in 1935 was £11,500,000.

For Satisfactory Results

SEND YOUR FRUIT TO

F. H. G. ROGE

Fruit Selling Expert

Municipal Markets. Sydney

Established 1900

IRROOL HOUSE .. GRIFFITH

A. R. GIBSON, Lessee.

N.S.W.

PHONE 300

Accommodation for 100 Guests.

Ample Lounge, Reading, Writing, and Supper Rooms. Colossal Dining Theatre with varied Cuisine.

THE ONLY HOUSE OF MODERATE TARIFFS AND HOME COMFORTS IN THE DISTRICT.

Centrally Situated - Handy to Railway Station.

August 5, 193

REPAIRING WATER CHANNELS IN THE GRIFFITH DISTRICT.

Repairing water channels is an operation of vital importance to the whole of Australia, as it prevents seepage, which spoils the land and makes production impossible, and incidently depletes revenue.

The channels are controlled and kept in order by the Water and Irrigation Commission. A large gang of men is employed and much material

The "modus operandi" is: boil all material together, constantly stirring, to obtain complete amalgamation, a number of specially constructed large cauldrons being used, whilst

dusted over with cement all dirt and

moisture having been removed.

The materials used are: Trinidad bitumen, 95 lbs.; 40-50 compo, 182 lbs.; red Mallee sand, 170 lbs.; fine white river sand, 709 lbs.

The above are the component parts

which make up the new surface covering. Should any cracks occur in this rubber-like covering, a blow lamp is focussed on the openings and the

are closed up.

At the stops and crossings an extra grip is given the covering by making 2 inch indents in the under concrete.

Another system which experts claim and the system when experts that is effective, and less costly, is processed as follows:—Boiling Trinidad and Compo 40-50 poured thinly on the concrete, then a layer of hessian and boiling hot it is trowelled on to the again thin boiling bitumen and lastly old cement water channels, giving a good ½ inch of new surface, and then termed reinforced bitumen.

Orchardists, Vignerons, Citrus Growers, Dried Fruit Processors, Dairy & Poultry Men

requiring Containers for their products are invited to call at

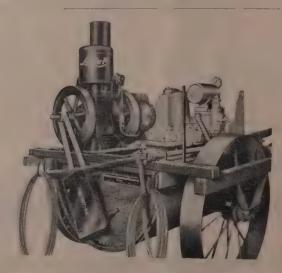
Case, Crate and Tray Manufactory

Railway Reserve, Griffith, N.S.W.

Where perfectly constructed QUALITY GOODS are obtainable at reasonably low prices. Large Stocks on hand

BEST CHAFF, BRAN AND POLLARD ALWAYS ON SALE.

AGENT FOR RONALDSON BROS. & TIPPETT.



"Nevertire" Duplex Spray Plants

2-Wheel Outfit Illustrated is the equipped with a 3 H.P. Lister engine. This is but one of the wide range of "Nevertire" Spray Plants, which includes a model to suit your Particular requirements. Each model has been designed by practical men, is solidly constructed, easily transported and simple to operate. Before buying your spray plant get full particulars of the "Nevertire" range.

Sole Agents for N.S.W.:

DANGAR CHADYE & MINLOCH

MALLOCH HOUSE, 10-14 YOUNG STREET, SYDNEY.



Operating the Overhead System of Irrigation.

tem of irrigation adopted by most or-chards in the Murrumbidgee Irriga-tion Areas, it is interesting to note the workings of the overhead system of irrigation installed by Messrs. Bev-erley & Sons, of Griffith. One of the greatest advantages of this method is that depressions in the soil receive the same water as the rest, thus making for a uniform spread of the water. In addition, no drains, furrows, or head ditches are required. The ini-tial cost of installing equipment for nead ditches are required. The initial cost of installing equipment for pumping the water and piping, etc., is heavy, but in the long run it has been proved that this system is economically effective.

Methods of Operating.
Messrs. Beverley & Sons' pumping plant delivers 25,000 gallons per hour, or an equivalent to 2 acre ft. per day, thus it will be observed that by continuous pumping the whole grove can be given a 2 in. watering within four days. From the pumping plant the water is carried through 2½ miles of galvanised piping, the mains being 7 in. and the sub-mains 4 in. The

In contrast with the general sys-pipes are carried into various set tem of irrigation adopted by most or- of the orchard on upright pole the purpose. These uprights are I in line with the trees about 3 feet out from the butts and at feet out from the butts and at angles to the mains. The main sub-mains are spaced at approximetrials, the laterals, which moveable are laid at right ang the sub-mains, one end being nected to the sub-main, the stopped with a cap. The lateral laid on one side of the sub-main ing the watering of a section. ing the watering of a section when this section is complete taken to the opposite side for ing another portion of the grov cap being removed and placed other end, the first capped end uncapped and attached to the main.

> These 1 in. galvanised iron day, conhave orifices punched in them in a manner as to give an even bution of rain-like water. The can be arranged with the elforifice upright or at any desired this being governed by the amount of the wind.—E.L.

TILLING THE VINEYARD.

Deep Winter Ploughing.

N a properly established vineyard N a properly established vineyard the four factors of fruitfulness are—Correct pruning, thorough tillage, adequate manuring and the control of disease, says Mr. F. de Castella, Viticulturist of the Victorian Department of Agriculture, in the Department's Journal.

Each of the above are important, but none more so than tillage. Disappointing results are more generally attributable to poor attention to the working of the soil than from any

other cause.

other cause.

The methods of working differ with localities, and with growers, yet all recognise the need for soil working. Repeated scratchings a couple of inches deep, Winter ploughing 8 or 9 inches deep, followed by Spring and Summer working at a shallower depth, both have their advocates, and both are correct in different localities and climates. Superficial culture gives good results in cool climates having ample rainfall, whilst in hot, dry districts the deep tillage is necessary.

Phone: UX 7145.

"I see that you've given up ing your wife to drive."

"Yes, we had an accident." "What happened?"

"I told her to release her clut she let go of the steering-whe

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Packers of Deciduous Citrus Fruits.

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> "Excello" "Cello"

Enquiries Invited.

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We make all sizes and styles of Fruit Sizing Machines from the smalle a very low price suitable for the stone fruitgrower with only a few of to the largest and most complete packing house plants ever produ Machines with instantly operated independent controls to all roller sect Highest class workmanship and reasonable prices.

WASHING MACHINES FOR APPLES AND CITRUS. Write for Prices and Particulars.

W. BROWN & SONS,

15 CHURCH STREET, LIDCOMBE, N.

cied Fruits News and Notes

PRUNING GRAPE VINES

Various Stages Explained

minds of vine growers, some notes by Mr. F. L. Jardine, Inspector, appearing in the ensland Agricultural Journal," opical and will be of interest to ers not already conversant with

ture intended the vine in its ral state to be a creeper, but the of the saw and secateurs brought t a radical change in its habits, instead of growing as a creeper, so been forced for commercial oses to adopt the habits more shrub or bush. Curtailing its ty to this extent has naturally red its vitality, and instead of ucing a vigorous growth of so with little fruit it feels its ne and turns all its energy to production of fruit.

Us point is of vital importance to pruner, it being an easy matter roduce huge crops of practically warket value at the expense of the and at the same time undering the constitution of the vine, nes distressed by wrongful ture intended the vine in

wrongful

nes distressed by ing and overcropping often take Experience has to recover. ht that some varieties of vines more fruitful on the first and ad buds and others on the third fourth, and even more; in the of this knowledge the prunof Grape vines has been divided two methods—viz., short pruning, able to those vines that bear on first buds, and long pruning first buds, and long pruning, ted to varieties that produce bunches further along the

s.

he fruit of the Grape vine is uced on the canes of the current 's growth exactly opposite the and leaf, these canes develop buds on the previous year's with, which in turn are produced and form the fruit-bearing spurs along the main ated at intervals along the main ated at intervals along the main nanent arm of the vine. A vine ned in this manner is usually re-ed to as a "Unilateral Cordon," or ermanent arm with spurs. t the first pruning, the most up

t the first pruning, the most up-it canes are retained and all ir growths are discarded. The a trunk will form the trunk, but so must be shortened back, usually two or three eyes, to encourage strong growth in the following

the second pruning, the main e is shortened back along the wire m 1 foot to 2 feet 6 ins., according the vigor of the vine. The end selected should be on the under face of the cane to induce the rend growth to lie as flat as possible to the contract of growth to the wire increased of growth as along the wire increased of growth. e along the wire instead of grow-upwards, as it would if pruned a bud on the upper part of the e. All lateral growth should be

he third pruning should include Financial and cing the canes on the upper sur- also transacted.

ITH pruning now occupying the face of the main arm, usually 6 to 8 ins. apart, and cut back to two eyes.
All other growth should be removed except the end cane, which is cut back to 12 or 18 ins. in length.

Assuming the vines are planted 6 feet apart and that they have made good growth, the fourth pruning should bring each vine up to meet its neighbour.

The spurs established in the previous pruning should each have produced two canes, one from each eye, and in order to retain the spurs as close on to the main arm as possible the top cane is removed and the lower one pruned to two buds as pre viously, a section of the extreme end growth is left up with the next vine. During the fifth Winter the vine is treated in the same manner as far

as the spurs are concerned, i.e., keeping only the lower cane, which is cut back to two eyes.

The end spur of the vine receives The end spur of the vine receives different treatment, a short section of the top cane is laid down to meet up with the first spur of the adjoining vine, while the lower cane is pruned to two eyes forming the return spur which will furnish two canes the following Summer that will be treated in the same wayper.

canes the following Summer that will be treated in the same manner.

It is a recognised procedure when pruning to cut through the node directly behind the bud, the reason being that in doing so a hard surface is exposed, which is less liable to rot or die back past the end bud as when cut through the internode, it is the section of cane between the i.e., the section of cane between the eyes.

DRIED FRUITS BOARD (S.A.).

meeting of the Board was held

A meeting of the Board was held on July 5, 1937, when all the mem-bers and the Secretary were present. Secretary reported he had sub-mitted the eighth report of the Board for the year ended 28/2/37 to the Minister, who had asked that the report be not released until it was laid on the table of the Legislative Council

Reports of the Chief Investigation Officer on his visits to the northern towns were submitted, as well as of the Grading Inspectors in the nonirrigated areas.

irrigated areas.

It was agreed to make a contribution of the usual amount as the Board's trophy for the highest aggregate marks in the River Murray Pruning Competitions, the final of which was held at Waikerie on July 1.

A statement showing the position

of dealers in relation to the State quotas for 1936 season's fruit, was submitted, and the Secretary was directed to communicate with all dealers who had oversold on their quotas requesting them to educe the quotas, requesting them to advise the Board of the steps they propose to take to adjust. Financial and routine business was

WINE GRAPES CHARGES.

HE Minister for Commerce (Dr. Page) states that under the Wine Grapes Charges Act of 1929 a charge is levied and must be paid by the owner of any winery or distillery on all Grapes which are de-livered to that winery or distillery for use in the manufacture of wine, or spirit for the purpose of fortifying wine, during each year from July 1 to June 30.

The Regulations under the Wine Grapes Charges Acts provide that the owner of any winery or distillery shall, not later than July 30 each year, furnish to the Secretary, Department of Commerce, Canberra, a statutory declaration setting out the current of fresh Crease and Aid quantity declaration setting out the quantity of fresh Grapes and dried Grapes delivered to that winery or distillery during the year ended June 30 for use in the manufacture of wine or spirit for fortifying wine. The names and addresses of the growers delivering the Grapes must also he shown.

Grapes grown by the owner of any winery or distillery and used in the production of wine or spirit for fortifying wine must be included in the return. No charge is levied on wineries or distilleries using less than ten (10) tons of Grapes.

The Wine Grapes Charges Regulations provide for a penalty of fifty pounds (£50) for failure on the part of the owner of any winery or distillery to furnish the statutory declara-

Forms of Return have been forwarded to wineries and distilleries to enable the return to be furnished promptly. The onus of furnishing the return lies with the owner of the winery or distillery, and, should no form of return have been received. immediate application should be made to the Department of Commerce, Canberra.

FOREIGN DRIED FRUITS.

Latest Reports to Hand.

Shortage Possible.

It was estimated in May that the total supplies of Raisins on hand in California were 50,000 tons lower than at that date last year. It was predicted that, even a heavy crop this year will be insufficient to meet normal trade requirements. Thompsons were expected to be normal, but Muscatels would be 15 per cent. down Only about 2,000 tons of Thompsons were unsold at report.



Drying Prunes in the Murrumbidgee Irrigation Areas.

Reports from Greece stated that the crop for 1936 was 130,000 tons, and a carry-over of poor grade Currants was then about 48,000 tons, of which 30,000 tons was expected to be sold to Germany and 6,000 tons to Yugoslavia for industrial purposes. Greek exports in the past three years have been:—1934, 61,358 tons; 1935, 67,399 tons, and 1936, 66,511 tons.

London stocks on March 31 were said to be:—Raisins, 5,704 tons, as against 7,078 (1935), and 8,971 (1934); Currants, 4,650 tons, as against 5,105 (1935), and 3,827 (1934), all of which tends to a prediction of shortage in 1937.

41,781 TONS SHIPPED.

Sales in Great Britain.

Continued demand for Australian dried fruits is manifested in the report to the Commonwealth Dried Fruits Control Board of sales for the week ending July 22, when in Great Britain 2,082 tons were cleared. The details are as follows:-1,140 tons of details are as follows:—1,140 tons of Sultanas were sold at an average of £44/19/4; 661 tons of Currants at an average of £30/19/9, and 281 tons of Lexias at an average of £42/14/- per ton. The total shipments to Great Britain are 27,330 tons, of which there have been sold 15,216 tons. The demand continues strong. Other shipments to date include:—To Canada, 12,308 tons; to New Zealand, 3,605 tons, and to other markets, 421 tons, a total of 41,781 tons.

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BLACK SPOT

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OIDIUM OF VINE

Mixed according to directions, "Vallo" Colloidal Sulphur can be effectively used with most spraying materials, but the best results are obtained by combining "Vallo" Lime Sulphur, "Vallo" Arsenate of Lead, and "Vallo" Nicotine Sulphate in the mixture. Write for particulars.

"Vallo" Colloidal Sulphur will remain indefinitely in uniform consistency, is always ready for use, and is easy to mix.

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G.P.O. BOX 508 H

Home Consumption Fewer Prunes in Quotas

Revised List.

MEETING of the Consultative Committee of the State Dried Fruits Boards was held in Melbourne on 23rd instant, Mr. G. A. W. Pope, Chairman of the South Australian Dried Fruits Board, presid-

Other representatives present were:—Messrs Parker J. Moloney, Chairman, Victorian Dried Fruits Board; G. J. Evatt, Chairman, N.S. Wales Dried Fruits Board; G. A. Try, Secretary, N.S. Wales Dried Fruits Board; W. N. Twiss, Secretary, South Australian Dried Fruits Board; W. Cremor, Secretary, Victorian Dried Fruits Board.

The principal business ing. Other

The principal business was the revision of the home consumption quotas for dried fruit. After conquotas for dried fruit. After consideration of the revised estimate of probable production and consumption for the 1937 season, the Committee agreed to recommend to the State Boards that the following home consumption quotas should be declared:

inc	reas
%	%
 19	
 17	1
 471	71
 $66^{2}/_{3}$	
 80	
 37½	73
	% 19 17 47½ 66²/s 80

very exceptional circumstances arise, these quotas will not be altered during the rest of the year. No home consumption quota was recommended for Apricots.

In regard to Prunes, it was agreed to allow the existing quota of 60 per cent. to remain until the season was further advanced, and more informa-tion regarding the Prune pack was

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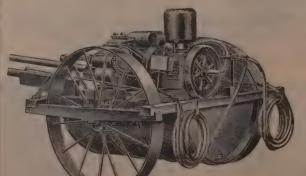
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MYERS' TYPE PUMP—Cylinders porcelain lined. Valves and seats rustless steel. Gears nickel steel, machine cut, hardened. Pressure

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1936

World Crop Declines.

Approximately 236,000 tons Prunes were produced throughout world last year, a drop of 95,000 from 1935, but only 4,000 tons be the 5-year average.

European production was 59 tons, an increase of 26,000 tons of 1935. In 1936 U.S.A. produced 177,000 tons as against 298,000 in 1935 and a 5-year average 213,000 tons. The increased Ex pean production was influenced blarge crop in Yugoslavia, which ported 42,000 tons last year, against only 11,000 tons in 1935, 19,000 average in the last 5 ye The countries absorbing Yugo Prunes are largely Germany, Australia Czechoslovakia and Poland.
many collects a low duty on Pru
and has given Yugoslavia a qu
of 23,700 tons per annum.

Bulgaria's Prune crops have gr in recent years, the outlet for in recent years, the outlet for surplus being predominatingly many. Owing to a small of Rumania, the only other Europerune producing country, will practically no export surplus. If of France's Prune requirements 18,000 tons come from U.S.A.

GRAPES BEAR IN 18 MONTH

When T-Budded.

A new method by which seed Grapes can be made to bear i months, instead of in 4 or 5 year reported by the U.S.A. Departs of Agriculture. Experiments ducted by the Bureau of Plant dustry give T-budding as a mean hastening fruit bearing of sele

The seeds were planted in a gr house in February, and when the house in February, and when the parame up and showed a few leave was transferred to a gallon can 6 inch pot. By June it had grow 12 inches high and had 4 buds. The buds were T-budded into vigorout stocks or bearing vines in vineyard. They were wrapped rubber grafting tape and the pinched off at the tip to check a minal growth. minal growth.

Ten days later the shoots were back to the bud. As 3 or 4 are inserted in each shoot the we ones are pinched back and only strongest allowed to grow. August of the following year (a 18 months) they will bear, says report. Out of 1,500 T-buds worked, 80 per cent. were a succ

INCREASING CONSUMPTIO

Publicity Campaign.

At a meeting of the dried find joint publicity committee, which presided over by Mr. P. Male Chairman of the Victorian I Fruits Board, it was reported the Australian-wide window drescampaign had been undertaken, considerable success. Excellent plays of dried fruits had aroused interest both of retailers and of public, and had stimulated the of fruit. The committee decide conduct an exhibit at the forthing Royal Agricultural Shows Melbourne and Adelaide. Attrafolders, setting out the culinary of the various tree fruits, it stated, had been printed. In Vic. At a meeting of the dried f stated, had been printed. In Viethe committee reported a special had been made with raisin bread for that purpose 10.000 leaflets been distributed to the trade.

smanian News and Notes

WEATHER REPORT — PLOUGHING AND PRUNING ADVANCED — CONTROL OF PESTS — COOL STORES FILLED — REWORKING CHANGES — FRUIT PACKING INSTRUCTION — REPORT ON BERRY FRUITS.

Weather.

ughout all the main fruitg areas severe frosts followed
to very bright days prevailed
the greater part of the
Rainfall was well below
a, and the records compiled by
teorological Bureau at reprere centres follow:—

rt, 131 points compared with erage of 221; Franklin, 110 compared with the average of sunceston, 79 points compared average of 322; and Devononly 83 points, as compared

peratures for the month were uch lower than average.

Seasonal Work.

Seasonal Work.

vers generally have taken ade
e of the dry weather followon last month's heavy rains,
oughing is much further ahead
a normally the case at this
though many southern
s were held up in their hart. Pruning has commenced in
sth and is practically completorthern districts where the first
Sprays for Red Spider have

Sprays for Red Spider have

syrays for Red Spider have been applied.

gard to pruning, growers are encouraged to bring their ut on to laterals, particularly case of colored varieties. The experienced in January resulted siderable short growth, and it ly that certain varieties will ta tedious task; however, it be remembered that some of oung wood may be advantage used to form the fruiting recommended, and an opport of removing old and twisted purs in their favor, is presentlarly trees bore heavily during st season and are likely to be ned in consequence for the st season and are likely to be ned in consequence for the 8 crops. In such cases, where fruit buds are in evidence, a ous thinning will greatly bene-blossom set in October.

Pest Control.

advantage is being taken of y weather to plough in deeply aves and fruits affected with and good preliminary con-nould be obtained in this way. scraping and the removal of Moth bandages is also under and if this is backed up by the and if this is backed up by the ration of all prunings and dis-wood, most of the main or-pests, including Red Spider, y Fly and Mildew will receive ere set back. Woolly Aphis has in the trouble during the past than for some years; this than for some years; this be attributed to a reduction in mber of parasites present, or a which was not entirely suited ir rapid development.

Thing operations on Peaches and its should be hurried forward, y marked increase in temperatulowing the severe weather expenses.

JMMARY OF INFORMATION | are also full, and during last month IMMARY OF INFORMATION 1 by the Chief Horticulturist 2 District Orchard Inspectors, 2 with other matters relevant culture of fruit, follows—

Weather.

ughout all the main fruitg areas severe frosts followed to very bright days prevailed the greater part of the Rainfall was well below 2, and the records compiled by the corplexical Russian and the records compiled by the corplexical Russian and the records compiled by the Chief Horticulturist are also full, and during last month thousands of cases of Sturmers were picked and sent direct to processing plants. This last outlet has undoubtedly relieved the position considerably, and a very fine product is being turned out. It is reported that some late spot is developing on shed stored fruit and growers are advised to overhaul samples from time to time, to ensure that deterioration is not taking place.

Reworking.

Reworking.

Judging from the requests for advice in regard to preliminary preparations for reworking and suitable scion varieties, many Apples and a much larger number of Pears than last season, will be changed over. Crofton and Delicious, together with red bud sports of these and other popular varieties are much in favor, Granny Smith is also in demand, and Comice amongst the Pears. Those growers desirous of obtaining scions are requested to get in touch with the Orchard Inspector for their particular district, or write in direct to the Department of Agriculture, Hobart.

Packing Classes.

Children from all the main State Schools in fruit-growing districts are

Children from all the main State Schools in fruit-growing districts are now attending regular packing classes. Instructors report that following the first two or three classes, pupils have made rapid strides, and the interest aroused by the Calvert Shield competitions has in some centres been still further stimulated by local support and promised awards

year.

All old canes must be removed in Raspberry and Loganberry plantations and the young canes thinned out to the most vigorous. With Raspberries, unripened wood should be removed from the tips, and the Lloyd George variety (which has a tendency to produce flowers and fruit on the upper portions of the young canes in Autumn) cut back below the last bud, which grew out into flowers. last bud, which grew out into flowers. Support against the winds in Spring may be given by tying the canes together near the tips into threes and fours.

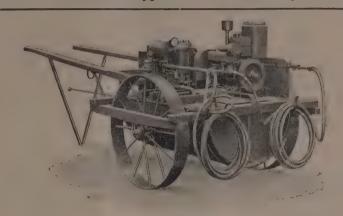
Gooseberries will require diate attention in the matter of prun-ing. Close pruning of all laterals is the general method used in subur-ban areas, but commercially a judicious thinning out of the centre and removal or shortening of low and trailing branches to an upper bud, is sufficient once the bush has been shaped.

black Currants produce nearly all their fruit on the young shoots, and pruning should be carried out with a view to maintaining a constant supply of this. Each year a number of the older limbs are removed and any which are obviously affected with borer. The latter may be recognised by the shortness of the young shoots coming from them and the large ples and Pears is filled to ty, and many hundreds of cases weld up until space becomes ble through the shipment of Most of the growers' sheds Black Currants produce nearly all

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NR MANNERDE

Advice as to Varieties

(By T. W. Brunning, Somerville.)

HE necessity for the elimination of fruit varieties in cultivation is apparent to all, but a diffi-arises from the fact that the fruit-tree nurseryman must carry varieties which are not only suitable for Australian conditions, but also for New Zealand and foreign countries in the Soupthern Hemisphere, where tastes are different from our own, and where color in the fruit is, perhaps, more important than quality. So much so that there is too great a number of varieties.

Apple Varieties.

Apples for early markets start with
the Beauty of Bath variety, followed
by Wilson's Red June in New South by Wilson's Red June in New South Wales, William's Favorite in Victoria, and Carringtons red and striped varieties slightly later in New South Wales, where an old variety which realised high prices last season, namely Cowell, has come into prominence. In the cooking classes, Lord Suffield is followed by Peasgood Nonsuch and Alfriston to pick over a long period. Lord Nelson, with a resemblance to a large Gravenstein in color only, is popular in the northern areas and may be relied on to bring in good prices. Then comes to bring in good prices. Then comes the Gravenstein period—no Apple in the red and striped kinds available has as yet displaced this popular variety, the market still demands the Gravanstein

Then there is a slack period between the Gravenstein and the Jonatween the Gravenstein and the Jonathan, and the only Apple to plant for the first export boat in the Willie Sharp, because of its firm and good keeping qualities, but it is at present off the export list. Fruit off young trees cannot be expected to carry as well as fruit off older trees. The fruit is of Cleopatra type and an excellent, reliable bearer with a clear yellow skin over snow white flesh of good quality.

good quality.

McIntosh Red fills in a period of ripening before the Jonathan in the northern States.

Then come the Jonathan, Cleopatra, Dunn's Favorite, and Delicious for local market, cool storage and export, and they still retain the popularity due to them. These varieties must due to them. These varieties must not be relied upon to keep for long periods where cool storage is not available. That need can be filled from the following:—Rome Beauty, Red Statesman, then the latest ripening kinds such as Granny Smiths, Tasma, Rokewood and Yates, and, if Tasma, Rokewood and Yates, and, if a green cooker is required other than Granny Smith, Stewart's Seedling is a large dark green variety, and in those States where Apples are sold by weight it is advantageous as it is a heavy Apple, which means much to the retailer.

Comment might be made on the omission of Sturmer Pippin, and

rightly so. If thinned, this variety still retains its good cropping of good quality fruit, but prices seem to keep this good Apple out of the picture. During the past two years, however, this variety has been asked for. Cox's orange Pippin has the disability of being unsuitable in many districts, the price of the trees in trenches, star place the trees in the place the trees appeared to the place t being unsuitable in many districts, but where conditions are suitable and the fruit is free from bitter pit, a big future awaits the grower, as high prices are always available. Laxton's Superb is similar to this variety and may supersede it later.

Pear Varieties.

In Pears the varieties are considerably reduced—firstly there is the Clapp's Favorite, with its high color, just ahead of William's Bon Chretien, just ahead of William's Bon Chretien, with Howell as a filling-in variety, followed by Packham's Triumph, which is a first-class variety for local market, cool storage and export; then Beurre Bosc, Winter Cole, Winter Nelis and Josephine de Malines, which go to make up the best varieties in existence. Later varieties which are good keepers, apart from cool storage, are very essential for pollenising. L'Inconnue and Winter Bartlett are both helpful for Winter Nelis. for Winter Nelis.

Doyenne du Commice, the highest priced Pear in the export trade, requires Beurre de Capiamont amongst others for successful pollenisation. Doyenne du Commice is a good Pear, but its bearing stage is not reached much before seven or eight years, so consideration must be given to earlier bearing varieties to maintain the orchard finances.

place the trees in trenches, statthem upright, and cover the with soil. They may then be till required for planting. planting ensures less losses in S of early Summer owing to weather setting in before the root system establishes itself, roots are never wholly dormant; planted in June often having of four inches of new rootlets by A or early September.

Pruning Newly Planted Tree Prune after the trees are pla not before. The limb growth, pruned short, becomes a stub an eye bud gets knocked out, resulti

mis-shapen new growth, causin unbalanced tree.

Another important pruning fa be guarded against is not to cu be guarded against is not to cut head off the young tree or cut head limbs close into the stem is the case of Peaches and Nects often no bud close in exists. Whole tree shape is ruined by practice. Cut the limb growth least two or three inches from stem head, if you must prune and make sure that at least two exist between your cut and the doyenne du Commice is a good Pear, but its bearing stage is not reached such before seven or eight years, to consideration must be given to arlier bearing varieties to maintain the orchard finances.

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.....

GE GROWING IN BRAZIL.

xports Growing Rapidly.

nany people the South Amerinany people the South Amer-an country of Brazil is related o the nut industry. Austra-tow Brazil for the opposition to Australia in the supply of the European market, but it so generally known that Oranges are becoming more ore known on the world's

l is one of the big States of America. Its largest city, ulo, is as large as Melbourne, population of over 1,000,000 and the agriculture, pastoral ait industries are developing

considerable interest to ia that the export of Oranges

ia that the export of Oranges razil is increasing fast. Prelittle organisation was seen industry. The fruit was! in the mass and in very ve fashion. Louse heaps were the railways and barges, but modern packing sheds, with ate and efficient grading, and packing facilities have troduced and large quantities ages, carried in cool chambers hips. are now sent to

ages, carried in cool chambers hips, are now sent to ... The oranges exported a different type to those stralia, and compete more those from South Africa, of a large size with only a ture skin and with color varymagraen to a light vellow. om green to a light yellow. re really sweet and very juicy, becoming very popular over-

outhern Brazil water is very al, and modern methods of cul-are being introduced until, lestine, Brazil will soon be one large producing centres for the supply of Oranges, especially ting is being rapidly increas-rowing is made comparatively y reason of an ideal climate nges and a low rate of wages, relatively low cost of produc-

SUS AT THE MELBOURNE "ROYAL."

atries Close August 21.

ers are asked to increase the ers are asked to increase the of entries in tray classes at 37 Melbourne Royal Show. It that an opportunity was lost ar for educating the public on ious types of citrus fruits exbecause the entries were and it is suggested that a aore co-operation be extended wers this year.

wers this year.
ies for all classes close on
21. In the Export Packing
ition, exhibits must arrive in
rne by August 14 to allow
ir the period of five weeks cool
before judging is done, but
ther classes delivery and stagbe made up to the morning show

eulogistic comment was ex l at the citrus display last nd it is hoped, and anticipated, 137 will be even better. FORBIDDEN FRUIT.

Grapefruit Now Popular.

Those persons who now recognise Those persons who now recognise Grapefruit as an accepted member of the citrus family, will be surprised to learn that, even in U.S.A., where it has become a universal breakfast dish, when the great World's Fair was staged in Washington Park, Chicago, in 1893, Grapefruit was comething of a novelty.

In a pamphlet published in England in 1905 it was described as "The Forbidden Fruit," or Shaddock, or Grapefruit, and people were told how

Grapefruit, and people were told how to eat it. Once the technique of eat-ing it was mastered, Grapefruit became popular.

Its popularity, however, created a problem in America, where production exceeded consumption and other means of utilising the fruit had to be

Since Grapefruit canning is con-centrated chiefly in Florida, about centrated chiefly in Florida, about half the peel grown is available for processing into an amber-colored oil with the smell of Orange or Lemon oil, and equalling them as a flavoring agent. The main outlet for this oil is Great Britain.

Grapefruit champagne is another new adaptation. Sugar must be added to achieve this, because the fruit does not have enough natural sugar to

not have enough natural sugar to

The bitter naringin is extracted care. By holding the wine for a period at a temperature of 125 deg. F. (about 52 deg. C.) a sherry-like flavor is imparted.

U.S.A. ORANGE EXPORTS.

Figures Drop in 1936.

The 1936 crop of Oranges in U.S.A. was approximately 52,500,000 boxes, or 12,500,000 boxes less than 1935, or 12,500,000 boxes less than 1935, and about 1,000,000 boxes less than the average for the past five years. Practically the whole of the production comes from California and Florida, with next volume from Texas. In 1936 California's crop was light, with 33,000,000 boxes, but Florida, at 18,000,000 boxes, had above the normal production.

About 8 per cent. of U.S.A. production was exported last year, 4,210,000 boxes, as against 5,425,000 in 1935. Shipments to Europe declined, but export to Canada rose to 2,426,000 boxes, and was the largest export trade made.

boxes, and was the largest export trade made.

In 1936, Great Britain took 759,000 boxes of U.S.A. Oranges and the Continent 722,000 boxes, of which France took the largest individual share, with 400,000 boxes, followed by Sweden, Norway, Netherlands, Belgium and Germany in that order.

not have enough natural sugar to ferment properly. For comparison Grapefruit has a sugar content of from 5 per cent. to 8 per cent.; Orange contains up to 12.6 per cent. sugar, and Grapes, which are the usual source of wine, run from 12 per cent. to 25 per cent. sugar.

Juice from which Grapefruit wine is made is obtained from sound fruit which is unmarketable. The fruit is cut in halves and reamed with a burr.

CITRUS BOUNTY.

How to Be Paid.

Dr. Earle Page, Acting Prime Minister, on July 7 announced the conditions under which the recently approved citrus bounty would be paid. Two shillings per case will be paid for Oranges and Lemons shipped in the prescribed export cases, with a proportionate reduction for smaller cases.

A bounty will be paid for the A bounty will be paid for the 1937 season on Oranges, Lemons, Grapefruit and Mandarins going to destinations other than New Zealand, but not on Navel Oranges to U.K. and the Continent after July 31, nor on Navels to other destinations than U.K. and the Continent after August 31.

in Australia and overseas when the in Austrana and overseas when the film is completed and released. The citrus industry commends the Department for this publicity service, which cannot but impress those who see and hear the story of citrus culture in Australia.

CANNING CITRUS FRUITS.

Not only is the disposition of Americans to "live out of a can" being even more noticeable as time rolls on but new food lines are being canned every year. Citrus fruit drinks have established their popularity, and by-products are being further explored by the canning industry. The Fullerton (Calif.) growers are now building the first section of a £400,000 plant to enable them to enter the home and export market for citrus products. They look toward a production of 100 million cans of fruit and vegetable

VICTORIA'S CITRUS PRODUCTION. 1936-37 Figures Down.

According to figures released by the Government Statist on July 9, Victoria produced 563,703 bushels of all varieties of Oranges, 16,823 bushels Grapefruit and 181,920 bushels of Lemons. In the previous season the respective figures were:—604,537, 13,753 and 205,089. A glance at the attached table shows the variations in each variety and the production by districts. The figures represent bushels. The total number of individual growers is recorded as 2,140, a decrease.

				Mediter	<u>-</u> ·				Lemons,
				ranean	Other	Man-		Grape	Limes,
Districts.	Growers.	Navel.	Valencia.	Sweets.	Common.	darin.	Seville.	fruit.	Etc.
		Bush.	Bush.	Bush.	Bush.	Bush.	Bush.	Bush.	Bush.
Central	549	73	· 27	-	72		*2	36	86,138
Wimmera	43	325	102		72			******	687
Mallee	. 844	192,504	91,300	5,311	14,946	11,527	2,609	10,712	30,211
Northern	595	139,780	70,961	6,203	8,845	4,240	10,790	6,067	62,752
North Eastern	. 75	1,956	359	452	1,070	25	10	8	1,310
All Other	. 34	. 70	19	1	52		_		822
Total, 1936-37	. 2,140	334,708	162,768	11,967	25,057	15,792	13,411	16,823	181,920
Total, 1935-36	2,425	373,217	156,813	14,629	29,697	15,576	14,605	13,753	205,089

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Varieties Tomato

TESTS OF SUITABILITY

Department's Recommendation

W ITH a view to assisting Tomato growers to find the varieties most suitable to their districts, as well as those least liable to disease, the Victorian Department of Agriculture began some investigations in 1935 and continued them last year. The following is a review of the results reported by Mr. Basil Krone, Chief Packing Instructor, in the Department's "Journal of Agriculture," to whom we are also indebt-

A very good cropper, but, although of a round shape, it is not of the best quality. Growers in the Keilor, Portland, and Wangaratta districts continue to plant it, but elsewhere it is being discarded.

Ailsa Craig .- A very good cropper. but the fruit is too small.

Abundance.—A heavy exceedingly low quality fruit of no flavor and no substance. Selected Recruit.—This variety is

very similar to Market King in ap-pearance and characteristics, in fact, it is difficult to distinguish between two.

Eccles Surprise.—A good round-shaped Tomato which is a satisfac-tory cropper of excellent quality. Best results are obtained when it is lightly pruned, but it should be stak-



Glasshouse Tomato growing without heat.

ed for the loan of the blocks illustrating this article.

Seed of 13 varieties was secured from N.S.W. and Victoria, and obserfrom N.S.W. and Victoria, and observation made on the growth and cropping ability. Some varieties, satisfactory in N.S.W., were found to be unsuitable in Victoria, but others were found quite satisfactory, and will be an acquisition to this State, even supplanting some of the older respiction. In reporting, Mr. Krone varieties.

Australian Earliana.—This medium Australian Earmana.—This medium to light cropper was tested in all districts, but proved to be quite useless under Victorian conditions. It is subject to splitting and softens badly at the ripening period.

Bonny Best.—This variety cannot be recommended. It is a medium cropper and good carrier when planted late in southern districts, but is inclined to run small. In northern dis-tricts it is useless as an early variety. It softens badly at ripening period,

and is a poor carrier.

Beefsteak. — A good quality Tomato, but a poor cropper. It is misshapen, is very subject to cat-faces ("Cat-face" is a term used to describe the complex surfaces may be the complex surface. a rough, irregular surface, more or less corrugated and uneven); is sub-ject to blossom end rot, and splits badly everywhere it is grown.

Kondine Red. — This excellent variety has proved to be a good cropper of first-class quality, and is satisfactory as a late variety in all our southern districts. It will be grown over a wide area when better

Known.

Keystone.—A useless type, similar to Beefsteak in undesirable features.

Red Marhio.—A Tomato of quality and good to medium cropping habit.

It is as round as a ball and gives

their value from a commercial point their value from a commercial point of view. They were profitable to grow in the bush form; also whether lightly, medium or heavily pruned, on stakes. From observations, however, it is suggested that they be grown as staked varieties and pruned to a single leader, but to not more than three leaders.

The following varieties were tested

A pleasing feature of Kondine ed. It can be confidently recommended Red and Red Marhio in the tests was for all southern districts. Eccles ed. It can be confidently recommended for all southern districts. Eccles Surprise may become the main variety in the Bacchus Marsh and Croydon districts. It is a first-class late variety, but unfortunately in some of the northern areas is inclined to softening at the ripening paried. period.

Frogmore.—A variety which has been tested in the Portland district with every satisfaction. Medium pruning appears to suit it and it should be grown on stakes. It is a nice round Tomato of good flavor, which suits the Melbourne markey, but it is not a good entermarkey. from seed obtained locally:—

Market King.—This variety is a cluster type which must be heavily pruned and forced. It is inclined to run small and is subject to splitting. but it is not a good carrier for inter-



"Plane" Brand Du

"Beauty" (Knapsack) Duste "Superior" (Rotary) Dusters

ARE MANUFACTURED BY

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state markets. This variety m grown on well-drained situs otherwise it is subject to split. San Mazano.—This new varia a good cropper in all parts State. Unlike other types, it not be harvested until it is a carcolor. While not satisfactory table variety, this bright red Tappears to be the most suitable available for sauce. It is dry, what mealy, contains very few has a tough skin, and will not under forcing conditions. The Mazano Tomato has very good port qualities, and will carry factorily from Melbourne to and Brisbane after being harvefull red color. It may be lightly or not at all, or it is heavily forced on a single lead tripod method of staking suivariety admirably. variety admirably.

variety admirably.

It is recommended that, whe sible, round, smooth-shaped should always be grown. Flatties are frequently heavy cof poor quality. Round varies often poor to medium croping good quality fruit, but for a this disability is gradually overcome, while those of flatusually bring low prices.

To assist growers who wish an area of a given size, the ing counts of Tomato seed peshould be of assistance when the

should be of assistance when ing supplies:—

Burwood Wonder Burwood wonder.
Crimson Bell
Feeles Surprise Eccles Surprise Market King ...

In Victoria, first-class rowarieties are available, but a dearth of good round earl toes. More of the latter typ improve the industry consider



"Market King" variety of Tomatoes referred to in this article.

eld Day in South Australia

Pruning Demonstration

rd, gave a demonstration of g. A six-acre block of Jonann Mr. A. E. Brealey's Orchard elected. These trees had made us growth, and had reached a in their development when a ethod adopted was to cut back reak leader to check the excesow of sap, by this means buds

be rejuvenated and a better of fruit would result. party then visited Mr. A. Dear-property, where a block of Beauty Apple trees were in-d and found to be in excellent

RE than seventy people attended a field day, which was arranged by Paracombe Fruits' Association. Mr. Leishman, gexpert, and Mr. Fowler, er of Blackwood Experimental days a demonstration of did in a commendable way.

tangled branches, the owner remarked "There's your problem gentlemen. You may go to it." This the experts did in a commendable way.

The party clambered through the fence into a young orchard owned by Mr. Stone at this stage, and Mr. Fowler took the shears. After explaining the fundamentals of pruning, he proceeded to demonstrate on a young Apple tree, here a number of growers tried their skill, the result will be watched with interest. The party then inspected the packing shed owned by the Paracombe Fruitgrowers' Co-operative Society Limited, be rejuvenated and a better of fruit would result. party then inspected the packing shed owned by the Paracombe Fruitgrowers' Co-operative Society Limited, where school children were seen engaged in Apple wrapping and general pleasure was expressed at the excellence of their work. Mr. Gregory, of the Gerrard Wire Tying Co., is the instructor, and holds a class of about thirty boys and a number of girls in the packing season, the children are drawn from the senior classes of Houghton and Paracombe Schools. Adjournment was made for tea provided by the ladies.

In the evening a large gathering assembled in the Paracombe Hall to meet Mr. Strickland, Chief Horticultural adviser to discuss important matters affecting fruitgrowers. The conference lasted from 8 o'clock till 10.30. A great deal of valuable information was gained.

Modern Spraying Outlit

stralian Fruitgrowers Combine to Design Such

a more than thirty years ago nee a party of prominent Ausalian fruitgrowers called at the sering works of Messrs. Ronaldiros. & Tippett Pty. Ltd., at at, Victoria. They stated the se of their mission briefly and hit to the point. They wanted aying plant built—a spraying that was to be of the highest and in quality, materials, design orkmanship, and above all, one would particularly meet the of Australian growers.

was a tall order, and one that not be solved by the waving of thical magic wand. So they into conference with Ronaldson-it designers and engineers, after much discussion and sing out of ideas and view-departed with the promise they had come to get. It ime in a larger body and a critical frame of mind. The ne was waiting for their inform. Mercilessly they went over help inch, pointing out an imment here, alterations and addithere, while the designers and the stock notes and drew rough tes. With an air of enthusiastic ation they once more went. At last they were getting there! When they returned for st time, their decision was one d approval and applause. They got the machine they had d.

that day Ronaldson-Tippett that day Ronaldson-Tippett those thirty years of research, hard work and expense, they admit that success was with them from the start. Such success that brought its own reward.

Such success that brought its own reward.

After a reunion dinner held in London, the whole party paid a visit to a music hall. One member was greatly smitten by the charms of a quartet of girl singers, but she refused to go out to supper with him. e that day Ronaldson-Tippett

s more than thirty years ago ing development, and steeped in the nce a party of prominent Ausalian fruitgrowers called at the sering works of Messrs. Ronald-that the Ronaldson-Tippett range of the thirty in the result that the Ronaldson-Tippett range of spraying plants comprises a type and

that the Ronaldson-Tippett range of spraying plants comprises a type and size of plant to suit every individual grower's need. No matter what size his orchard or in what part of the country—on the plains or in the hills—there is a plant to suit him amongst this comprehensive range.

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should approach Ronaldson-Tippett, of Ballarat, in the first place, is indicative of their confidence in Ronaldson-Tippett productions. Executives, designers and engineers all realised this, and felt that Ronaldson-Tippett prestige was at stake. After all those thirty years of research, hard work and expense, they admit that success was with them from the start. Such success that brought its own reward.

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country. He and his kind are the salt of the earth. They do the nation's work, live within their means, pay their debts promptly, and provide for the rainy day.

Mr. Nichols took out his first A.M.P. policy (for £200) when he was 18. That called for an investment equal to less than 1/5 a week. (Any young man in work could do that.) Then, when he was 21, and getting a higher wage, he added a £300 policy. To-day he is 24, and he has arranged for another £200 policy to begin on his wedding day next month.

Mr. Nichols' father died last Christmas time and left him the proceeds of an A.M.P. policy that had grown, with bonuses, to £827. That money is being used at this moment in building a house. The young couple will begin life together in confrort and security, and isn't that the way it should be?

Young man, you can do what Mr. Nichols is doing. Don't say you can't; if you are in work you can, and you will get endless satisfaction out of it. Ask us to send an experienced man to talk the matter over with you.

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Correct Oil in Tractors

Overheating Causes

VERY tractor driver appreciates the need for maintaining the correct level in the sump of the engine, says E. T. Brown in "Farmer and Settler." also that he must have a good grade of the right kind of oil for the engine concerned, and the temperature season conditions. temperature-season conditions.

But there are still points which are frequently overlooked. Normally it is a simple matter to drain the old oil from the engine sump, the gearbox and the rear axle, and refill with fresh oil. When the farm tractor is new, however, it is necessary to flush out those parts with a special flushing oil, before refilling, after the outfit has been running for 15 to 20 hours, and again after running for another 30 to 40 hours. This is essential, because the oil, during the running-in period, collects metal particles; these must be removed, other-But there are still points which are ticles; these must be removed, otherwise extremely rapid wear of the bearings and cylinder walls results.

It is also advisable to flush out these parts every third or fourth time they are drained and refilled. If the tractor driver feels he is not capable of doing this work and a service station or garage is near at hand, the job should be entrusted to a skilled This flushing is not a fad, but a matter of very great importance making for future service.

12,250,000 CHEVROLETS.

of fur and hard deposits in the radiator core, water jackets and hose connections. It may be caused by a toorich or too-weak firing mixture. It may also be caused by a defect in the ignition which does not permit of advancing the spark sufficiently. In many instances, however, it is due to a slack fan belt, and the trouble is greatly increased if the belt also drives the water impeller or pump, because under such conditions both the flow of air and of water are affected. affected.

The tension of the fan belt should be tested. To do this the belt should be pushed with a finger at a point midway between the fan pulley and midway between the fan pulley and the engine pulley. When correctly adjusted the "give" should be about 1 in. If looser than this the belt is almost certain to slip and overheating results. If adjusted too tightly the fan belt will function all right, but wear and tear of both the belt and the fan spindle will be accelerated. Fan hearings should be kent well ed. Fan bearings should be kept well lubricated, and a good heat-resisting grease should be used for the pump. But there is another frequent the purpose, and one should be used for the pump. Special greases are manufactured for the purpose, and one should be trouble experienced by the careless, bought.

PLAY IN STEERING WHEEL.

Since November, 1911, when Chevrolet came into being, the company has manufactured a total of 12,250,275 passenger cars and trucks. Its 25-year record was culminated in 1936 with an all-time record year for domestic sales

year record was culminated in 1936 with an all-time record year for domestic sales.

The remarkable growth of the company can readily be seen from records of its annual production, and especially from the fact that while it required eleven years for Chevrolet to build its first million cars, it took only fourteen years to build the subsequent eleven million. The twelve millionth Chevrolet rolled off the assembly line on August 5, 1936.

In 1936, for the seventh time in the last 10 years, Chevrolet has led the entire automobile industry in production and sales, says Mr. F. H. Mee, advertising manager for Preston Motors Pty. Ltd. Dealers' profits have been higher than during any other year in the company's 25-year history, with 99.6 per cent. of all dealers showing profits.

Approximately 6,000 Chevrolets are being produced each working day. This large volume was made possible by an expansion programme completed a year ago at a cost of £5,000,000. In preparation for the manufacture of the 1937 models, an additional £5,000,000 was spent on new machinery, tools, and plant rearrangement prior to the start of operations on the current line, setting what is believed to be a record for a single year's expenditure of this kind.

Sales eclipse those of a year ago,

many thousands of units than in 1935. maintained.

It is advisable to give your steering periodical inspection to prevent costly

periodical inspection to prevent costly repairs, and to assure the safety of yourself and the passengers.

Excessive play in the steering should be checked at these points.

Examine steering drag link and tie rods for slackness. These should be adjusted regularly, or, if wear is excessive, replacement of ball joints should be effected.

Slackness in the steering box should be checked as follows:—

End play in steering worm.

This can be rectified by adjusting large nut on top of box or removing

large nut on top of box or removing shims from bottom plate.

To take out end play from the sector shaft, remove shim from side plate or adjust thrust screw if pro-

Play between the steering sector and worm can be regulated by ad-justment of the steering flange or the eccentric bush on the sector shaft.

CHANGING GEARS.

Don't Let the Engine Labor.

Despite the remarkable top-gear performances of modern cars, they are not built to climb every hill in top gear, and, thanks to the intro-duction of "silent" lower ratios, much new machinery, tools, and plant rearrangement prior to the start of operations on the current line, setting what is believed to be a record for a single year's expenditure of this kind.

Sales eclipse those of a year ago, which at that time marked a new record. In the month of November, Chevrolet dealers delivered 108,093 units, a gain of 16,028 over the total for the same period of 1935, and their bank of unfilled orders was larger by many thousands of units than in 1935. CHANGING A WHEEL.

Making the Best of a Trouble.

One of the least popular jobs that the motorist has to do is to change a wheel on the road, especially if he has good clothes on and the road is muddy or dusty. Fortunately the modern car is fitted with detachable rims or spare wheels that lessens the effort necessary and most of us they

to rust, but are greased from to time so as to make their reasy. When jacking up a who or more of the other wheels always be chocked, the chocks placed on the downward si which direction the car might to roll. The spare wheel or rim be made ready and put close a before the other wheel is reand should without delay be placed. modern car is fitted with detachable rims or spare wheels that lessens the effort necessary and most of us have memories of changing tyres under the old system. Even so there are some sensible points that apply.

The prudent owner is careful to see that the jack, wheel wrench and tyre pump are always in the tool kit, and that wheel nuts are not allowed

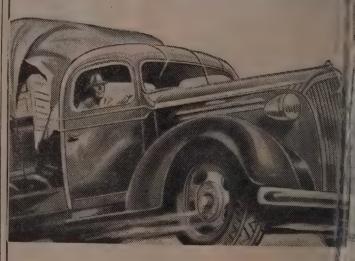
and should without delay be plosition, so as to minimise to of the car crashing off the jac nuts should be screwed up and fairly tightly before the resting on the ground a final ting up should be given. Need add, the handbrake should be the "on" position during the ing out of the work.

More Power per Gallo Less Cost per Load

WITH THE

CHEVROLE

30 cwt. - 2 ton and Commercial Modes



NEW BIG VALUE FEATURES include: Improved Perfected Hybrid Brakes - New Full-floating Rear Axle - Four-bearing Crank and Car - New Improved Engine Supports - New Stabilised Front End - New Swith Increased Ratio - New Stronger, Straighter Frame - New U-Type and Box Section Cross Members with Alligator Jaw Fastenings - New Spring Hangers, Springs and Spring Helpers - Massive appearance with steelstream styling - All-Steel Sedan-Type Safety Cabs, with V-Type Safety Glass Windscreen, etc.

Commercial Truck from - 30 cwt. - 2 ton Truck (131 w.b.) from - 42 ton Truck (157 w.b.) from - 42 ton Truck (157 w.b.) from - 43 ton Truck (157 w.b.)

Commercial Truck from -

DON'T FORGET PRESTON MOTORS' 24 HOUR ACCESS RI AND REPAIR SERVICE.

Metropolitan Distributors:

PRESTON MOTORS PTY, LTD 114 Franklin Street, Melbourne



Paper Prevents Scald

ver Stumbles Upon Fact.

LD is one of the common dis-ases of Apples in storage, says he "American Fruit Grower." ties have attributed the ape of this skin-ruining condithe collection of gases about
uit in storage containers.
nt of Agriculture in 1911 as a
ed oiled paper has been the
ive measure against scald for
rears, and the experience of G. shaw, prominent Ohio grower, the past season shows how an tal happening might change of our fruit handling practices. a number of years," says Mr. w, "we have been using shredw, "we have been using shred-ed paper to prevent scald in red Apples. Last fall we were the usual amounts of the in the storage crates with the and expected that this amount ar would handle the job as it the past. We were packing the f the Yorks before placing a storage. I noticed that we nod bit of the paper left. Since a storage. I noticed that we ood bit of the paper left. Since s the last of the Apples to go rrage, I told the men to use up t of the paper for the remain-

dn't think any more about it re started moving the Apples storage. Then I noticed that orks having the usual amount er in the crates were scalded. that had the extra paper had

convinced me that in the convinced me that in the we are going to put more oiled in the York packages and the the other varieties that tended badly. I believe that one-pound of the shredded oiled to each bushel will be enough to to scald, and I'm going to use the of my storage Apples next the storage of my storage and the scale of the of my storage Apples next

SHING CANNED PEARS.

Chain Stores Help.

indication of how the large stores in America co-operate ne canneries in the absorption plus supplies is reported refrom U.S.A. Record breaking framed Pears were reported 300 chain stores during the cart of Man and it was expected. part of May, and it was report-t this special "Canned Pear would almost clear surplus and relieve a position that ed the industry.

January 1 it was estimated there was a surplus of canned on hand of over 3,000,000 epresenting a carry-over from casioned by an exceptionally crop and supplemented by the of the maritime strike on the coast and unsettled foreign.

large chain store organisation large chain store organisation dover 10 times more sales, two weeks in early May, than normally sold. The special an resulted in a decrease of held to about its normal quanthat season of the year.

LEETON'S NEW MANAGER.

The action of the Leeton Cannery in appointing Mr. Williams as general manager has been favorably general manager has been favorably received in the district. He comes with a large experience of the canning industry, and plans to maintain and increase the high name made by Leeton products in the past. While welcoming Mr. Williams to his new responsibility, the cannery plans to perfect its organisation, bring their processing programme to an even higher state of efficiency, and reduce cost of production.

With the co-operation of suppliers

With the co-operation of suppliers in the form of even better grades of supplies, the cannery faces the future with optimism. Improvements in machinery and plant proposed in-clude an expenditure of £21,000. A new warehouse will be provided, and a re-arrangement of the equipment will enable the cannery to handle an increased output.

CANNED BRIEFS.

During 1937 the canned Grapefruit production in U.S.A. will reach 10,250,000 cases, according to the latest estimates.

The California Apricot Stabilisa-tion Committee has recommended £12 per ton as the base price for canning fruit this year.

Until a few years ago only the White (Roval Anne) Cherry was canned in California. Black Cherries were said to contain too much acid, which ruined the tins. Now a con-tainer has been devised that will keep indefinitely, and canned Black Cherries are becoming so popular that growers are extending their trees of this variety.

Exports to June

Nearly a Million Cases to Date

The exports of canned fruit from Australia for the six months ending June 30 were as below. The figures represent cases of 2 doz. 30 oz. tins, or equivalent. The destinations are also shown:—

	Apri-			Fruit	Pine-	
Country.	cots.	Peaches.	Pears.	Salad.	apples.	Total.
U.K	60,903	358,141	443,817	755	9,717	873,333
N.Z	6,933	18,714	10,381	112	984	37,124
Canada	5,347	34,740	2,293	1,265	12,532	56,177
East	2,147	5,396	3,685	1,317	67	12,612
Miscellaneous	640	1,136	1,688	21	194	3,679
Total	75,970	418,127	461,864	3,470	23,494	982,925

CANNING IN JAPAN.

Oranges and Pineapples.

Orange and Pineapple canning in Japan is increasing. Their value in 1935 amounted to £200,000 for 1935 amounted to £200,000 for Oranges and £600,000 for Pineapples which compares very favorably with those of preceding years. The in-creased interest in canning fruit in Japan is ascribed to Japan's ability to establish markets in Great Britain and H.S.A. Britain and U.S.A.

The efficiency of the Japanese canneries is said to be astonishing, says "Hadar." Sanitary conditions are comparable with, and better than some of the canneries in other countries. Canned Mandarin Oranges tries. Canned Mandarin Oranges from Japan have become firmly established on the London market. The quality of Oranges is quoted as good.

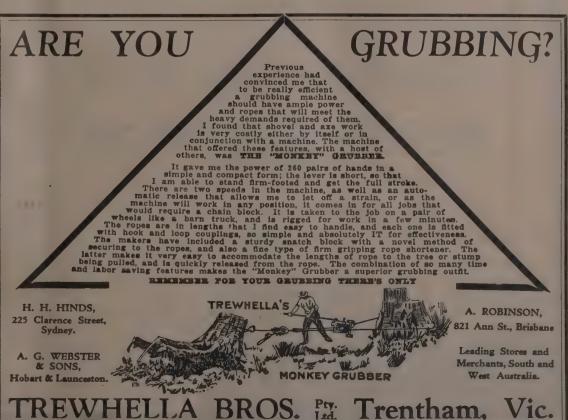
GRAPEFRUIT BY-PRODUCTS.

Big Texas Increase,

In the coming season citrus processing factories in Texas will pay upwards of £100,000 for 60,000 tons of Oranges and Grapefruit to be converted into canned juice, concentrates, marmalades, wines, flavoring, beverage bases and picked and candied peels, according to the U.S. Department of Agriculture.

As showing the development of

As showing the development of this side of by-products manufacture, it is reported that in 1933 three it is reported that in 1933 three Texas manufacturers paid £2,000 for culled fruit. In the following year seven plants operated and paid £10,000 for fruit. Two years later 17 plants were operating, and used 25,000 tons of Grapefruit at a return to growers of £53,000. This season a still greater increase is anticipated.



MELBOURNE SHOW ROYAL

23rd September, to 2nd October, 1937

NINE DAYS-

— FIVE NIGHTS

Fruitgrowers: Exhibit Your Produce at this Showthe finest advertising medium in Victoria for the Fruit Industry.

LIBERAL PRIZE MONEY OFFERED FOR ALL VARIETIES OF FRUIT

Entries Close Saturday, 21st August

WRITE FOR PRIZE LIST.

LOUIS MONOD, Secretary, R.A.S. of Victoria 422 COLLINS STREET, MELBOURNE

AMERICAN CANNERS' HUGE PROFITS.

Annual Reports Received.

Annual Reports Received.

Two large American packing houses have issued their annual reports, which show that 1936 was the best year for the canneries since 1930. Converted into Australian currency. the California Packing Corporation made a net profit of £949,454 on a total turnover of £12,350,025, an increase of 6.2 per cent. over 1935. During its peak season, the corporation had 35,000 persons on its payrool and paid out in wages £2,650,000. Libby, McNeil & Libby made a net profit of £900,503—6 per cent. higher than 1935. The total sales turnover was £14,878,386. The volume of both production and sales created a record.

was £14,878,386. The volume of both production and sales created a record. Compared with figures of recent years, costs to the consumer have dropped.

"PORT BRISBANE" CASE SETTLED.

Shipping Company Pays £4,000. What is commonly referred to as "Port Brisbane Case" refers to a

shipment of Pears sent to Englathe Batlow Packing House and Stores Rural Co-operative : Ltd., which were damaged in the The Society made claim on the The Society made claim on the ping Company concerned and the was taken to Court. The Su Court in N.S.W. returned a vector the Society for the amount claim, £3,213/18/-, plus costs. The Shipping Company then an appeal, which was taken Full Court of N.S.W., and aga Society won its case. An appearmade by the Shipping Compathe High Court of Australia negotiations between the two pwere conducted and the Society were conducted and the Society.

were conducted and the Socie notifies that a compromise ha accepted by which the Shipping pany will pay £4,000 in finalit

the claim.

The solicitors for the Societies that this settlement does refect the value to the industry verdict obtained.

LIGHTNING HOME BUILD

Many Satisfied Users.

Mr. George W. Mawman, ma turer of the popular "Ligh cement block-making machines many enquiries and very satisfied sales following his advertisement this Journal. He has received unsolicited testimonials from fied users in every State. He mits the following twelve reason the "Home Builder" machine be used:-

- 1. The Home Builder reduc-cost of building from 50 to cent.
- 2. Home Builder Blocks cost
- to produce.
 3. The blocks are equivalent to eight ordinary red bri
- one square foot of wall su

 4. They can be made at the
 200 per day by one man w
 machine, which includes miconcrete by hand.

 5. Home Builder Blocks can l
 quickly and use less morta
 hrighes.
- bricks.
- They also contain air shall can be used for ventilation poses. If not so used the effective insulation from h
- 7. The Home Builder builds outbuildings, etc., that ar against white ant and bo and flood, and are absolute manent.
- 8. The machine is scientific strongly constructed from grade steel, and is surp light, considering its strength, and can be easily long distances by hand.
 9. It is easy to operate, it
- no movable parts, no mechanism, it cannot poss out of order, and is built indefinitely.
- indefinitely.

 10. Is simple and speedy in our It is by far the cheapest a est machine of its kind market at the present time.

 11. Further, the machine is cent. Australian, being and patented by an Austragineer, manufactured the from high-grade Australianterials by skilled Australianterials.
- The "Lightning" Home Machine is 100 per cent. is a permanent investment 12. The cost is negligible.

Dealer: "This is the best p have, but I wouldn't sell him letting you know his one gets very angry if his food do him."

Miss Oldmaid: "I'll take hi seem quite like having a ma

Cables-Monro, London

Codes-A.B.C. 5th Edition and Bentley's

EO. MONRO

The Most Important Fruit-Distributing Organisation in the World.

COVENT GARDEN MARKET, LONDON, and SMITHFIELD MARKET, MANCHESTER Other Branches: BIRMINGHAM, GLASGOW, WORTHING, SPALDING and HULL



Sales on Commission, by Private Treaty only.

Over sixty years' of Fruit Distribution.

We do not purchase.

Our Sale Rooms are the largest and most up-to-date in England; consignments are therefore displayed to the best advantage, consequently, our returns are the best.

We have specialised in the Sale of Australian Apples and Pears by expert salesmen for many years past, and we have the largest and best customers in Great Britain amongst our clients.

Bigger and bettef business is our objective.

We make advances to cover cost of freight, etc.

(Established 1862)

DIRECTORS:

Major Edwin G. Monro, O.B.E. (Chairman), Geo. Monro, C.B.E., Bert J. Monro, Captain J. Stuart Monro, Alex. J. Monro, and C. Cole.

Chief Agent in Aust.-Major H. Dakin, V.D., Goldsbrough House, Macquarie Place, Sydney, N.S.W.

Victorian Representative Southern Tasmanian Representative Northern Tasmanian Representative West Australian Representative Esmond Russell Pty. Ltd., 395 Collins St., Melbourne. W. H. Ikin & Son, Dunn Street, Hobart, Bell & Gerrard, No. 200 Cimitiere St., Launceston. The Westralian Farmers Ltd., Perth.

ple Publicity in Sydney For Better Fruit

trong Committee Actively at Work

Much Enthusiasm at Apple Distribution at Schools.

APPLE AND PEAR publicity mpaign is in full swing Sydney. A strong Comas been formed to attend to ational publicity. The Chair-Mr. A. U. Tonking, M.L.A., joint Secretaries, Col. E. E. and Mr. P. S. Macdermott. mittee consists of representie the Fruitgrowers' Federa-N.S.W., the N.S.W. Chamber and Vegetable Industries, W. Apple and Pear Exportion, and the Chamber of Compopting Prof. Harvey Sutton APPLE AND PEAR publicity | S. o-opting Prof. Harvey Sutton on Committee), Mr. McKay, an Government representa-

from the press and radio ng, distribution of posters, books, health booklets, also stickers and pamphlets for the Sydney Publicity the Sydney Publicity the is arranging for August "Apple Month" in Sydney. The being decked out with competitions are being ar-for best dressed fruiterer's and the best decorated fruit Addresses on Apples and

and the best decorated fruit Addresses on Apples and are being arranged over and "B" Class stations, also before housewives' Associa-astralian Women's National and city clubs.

Hes for School Children.

Vednesday, July 28, 4,000 were distributed to school in the Sydney suburbs—thools in Alexandria, Erskined Newtown, also to boys at istian Brothers School and at the Sisters of the Good an School at Newtown.

b-committee under the guid-Mr. J. Holmes arranged for plying of the Apples to the then at the actual distribu-the Apples several members full committee attended—Mr. Tonking, M.L.A., (Chair-bol. E. E. Herrod and Mr. P. plentiful.

S. Macdermott, joint Secretaries Messrs. L. J. Jenkins, C. A. Ward, O. Blick and McKay (Tasmanian Government representative). Mr. R. E. Boardman, Publicity Director of the Australian Apple and Pear Council, addresed the pupils on the subject of "Apples and Health" at most of the schools and Cal Hayrod analysis at the schools, and Col. Herrod spoke at the schools, and Col. Herrod spoke at the Christian Brothers School. The theme was the health and food value of the Apple and the necessity for eating an Apple after each meal, and particularly an Apple last thing at night before going to bed—the Apple being "nature's toothbrush."

In this worthwhile effort the Committee had the close co-operation of the Education Department as well as the Headmasters and staffs of the schools. Much enthusiasm was

At the Newtown School the Head-master, Mr. Willock, thanked the Committee not only for the appre-ciated gift of Apples, but for the excellence of the arrangements and the assistance by members of the Committee in the handling and dis-tribution of the fruit.

Mr. A. U. Tonking, M.L.A., in expressing appreciation for the effort, stated he was convinced that this form of publicity was amongst the most important which could possibly be conducted. He said that not only were the children impressed, but the Apple and health story would surely be taken home to parents in a most acceptable way. This was in addition to the press publicity which followed the enterprise.

It is intended to continue Apple distribution to schools as part of the publicity activities. It is also thought that the present effort is paving the way for work of a similar character in 1938—during the earlier part of the year, when Apples are more plantiful

.W. CITRUS GROWERS' EFENCE ASSOCIATION.

meeting of the executive of rus Growers' Defence Asso-Mr. W. J. Black presiding, it cided to watch the interests s growers in the allocation of the new City Markets.

eciation was expressed for the of Mr. R. B. Walker, M.L.A., endeavors to have the Orchard

R. Roughley (Middle Dural) at the agitation for the reof the tax, or at least for a the growers on the subject en going on for some years, time had come for definite It was resolved to write to mier to ask for a decision as Government attitude.

s Embargoes: The embargo on port of citrus to Norfolk was regretted, it being stated se ostensible reason—the pos-pread of fruit fly—was unten-

rding N.Z., the lifting of the of from November to March no service to coastal growers,

IMPERIAL FRUIT SHOW, 1937.

Fruit Beverages Added.

The Department of Commerce has received class schedules and entry forms for the Imperial Fruit Show and Canners' Exhibition, which this year is to be held at Birmingham from October 20 to 28.

The Australian products which may be entered for competition include honey, citrus fruits, Apples, canned fruits and canned vegetables.

fruits and canned vegetables.

A new section, pure fruit beverages, has been added to this year's Show, and the citrus and grapejuice classes of this section are open to competition for Australian exhibitors. If the new section is well supported, it is probable that its scope will be introduced in future were.

extended in future years.

The Imperial Fruit Show provides Australian firms with an opportunity to demonstrate the excellence of their products in competition with other products in competition with other Empire suppliers, and in past years those firms who have submitted entries have achieved considerable success. It is hoped that Australian products will be well represented in the various sections of this year's charm.

no service to coastal growers, the past has furnished the the exports. It was decided avor to secure the lifting of bargo entirely or at least from to December 31.

Show.

Entry forms must be lodged with the Department of Commerce, Canberra, before August 14, and intending exhibitors may obtain full particulars and entry forms on application to the Department.

Oil Spraying Programme

USEFUL booklet on the control of orchard pests, under the name of "Better Fruit," is need by Vacuum Oil Company Ltd., and can be obtained from ompany's offices. In discussing the bark, the foliage of deciduous A USEFUL booklet on the control of orchard pests, under the name of "Better Fruit," is presented by Vacuum Oil Company Pty. Ltd., and can be obtained from the company's offices. In discussing the use of Gargoyle Red, Pale and White spraying oils, the company

The problem of arranging a com-"The problem of arranging a comprehensive spraying programme to care for fungi, scale and insect infection necessitates the consideration of the compatibility of the various specifics used and their reaction on the various parts of the tree.

"Experiments conducted over a great number of years has demonstrated the high commercial value of a dormant oil spray. The time of

a dormant oil spray. The time of application is a most important factor, and the closer one can get to the bud development the more effective the results will be. For Apples and Pears the end of July and early August is the time for the dormant spray. This also applies to localize to obtain the best results from their efforts. A valuable addition in the booklet shows the class of tree, the kind of pest, what to use, time of application, and comments for the guidance of the orchardist. It is profusely illustrated and shows pictures of the effect of various diseases and pests.

trees is definitely enhanced by the oil trees is definitely enhanced by the oil spray, the leaf system being just as important as the capillary roots. The late Prof. McAlpin stated that a thousandth part of a grain of copper sulphate, provided it could reach the rooting system of the fungi, would effect their destruction."

The health doels with the life

The booklet deals with the life history and habits of numerous orchard enemies, methods of control and practical information to enable orchardists to obtain the best results from their efforts. A valuable addi-tion in the booklet shows the class of

Make Your Export Produce a Safe Investment by Shipping to and through

SOUTHAMPTON

PEARS and APPLES

A few days saved mean the difference between profit and loss . .

There are many reasons why you should ship your perishable produce-particularly PEARS—through Southampton, England's most modern port. Here are some of them:-

Substantial local markets with a fruit sales room actually on Southampton Docks Estate. Quicker and frequently cheaper transit to Southern and Midland Towns. The Southern Railway of England runs express freights from Southampton to all these centres, saving days and money.

London is reached by express freight trains in three hours from Southampton-All fruit unloaded in Southampton to-day will be at Covent Garden, Spitalfields, or Borough Market for early morning market to-morrow, with days saved as against fruit discharged by ships calling at Continental and other outports first. The slight additional cost is altogether outweighed by the tremendous advantages of days saved.

Deterioration is avoided by special arrangements for sorting to mark, and quick insulated trains direct to London.

Southampton cold stores available for storage of produce for local consumption or Midland deliveries. Pears can be discharged from ship to cold store in less than 5 minutes.

Before the next exporting season, consider these advantages, and ask for Southampton Discharge for London Markets.

THE OUICKEST WAY TO BRITAIN'S MARKETS

For rates and all general information, write to the Australasian Agents:

SOUTHAMPTON DOCKS AUSTRALASIAN AGENTS

H.W. BEVAN & CO. LTD. 55 YORK STREET SYDNEY 301 FLINDERS LANE MELBOURNE

LONDON.

The Wonder Market.

The Port of London is unique in the authority relieves merchants that the authority relieves merchants of an immense expense and load of responsibility. It receives all produce from overseas vessels and renders all the services required in the course of marketing and delivery of goods such as weighing, tareing, grading, surveying, sorting to quality and condition, blending, and hundreds

PATENTS GEORGE A.U'REN

PATENT ATTORNEY
HENTY HOUSE" 499 LITTLE COLLINS S.

Producers' Co-operative Distributing Society Ltd.

Are now paying a Bonus of 10% on all Commissions charged to regular clients of the Fruit & Vegetable Section for year ending Sept., 1935

Send Your Consignments

TO US

MELBOURNE & SYDNEY.

TASMANIA

Leading Australian Firm of Fresh
Fruit Exporters.
Manufacturers IXL Jam and
Canned Fruits.
Hop Factors—Largest Cool Stores
for Hop Storage in Commonwealth.
All Orchard Supplies available at
all times.
Agents

all times.

Agents for—Associated Evaporated Apple Manufacturers, Eagle, Star & British Dominions Insurance Co. Ltd., Federal Steam Navigation Co. Ltd., Scottish Shire Line of Steamers, Osake Shosen, Kaisha, Blue Star Line

Correspondence Invited.

H. JONES & CO. PTY. LTD

VICTORIAN, NEW SOUTH WALES, QUEENSLAND, SOUTH AUSTRALIAN, TASMANIAN GROWERS.

ort Apples, Pears and Plums—1937.
It pays Growers to Export
To the English and Scotch Markets
this season to obtain the best
average returns for their
Pears, Plums and Apples,

Ridley & Houlding Ltd. COVENT GARDEN, LONDON.

And at Liverpool, Hull, Glasgow (Established 36 Years.)

A firm which holds the highest reputation for integrity throughout, and has proven to growers in every State of the Commonwealth that their average returns and Private Treaty Sales Service cannot be bettered.

All particuluars and advice re Advances and Shipping will be supplied by:

Pitts & Lehman Ltd., 129 Pitt-street, Sydney, New South Wales.

International Fruit & Mercantile Co., 6
Wholesale Fruit Markets, Franklinstreet, Melbourne, Victoria.

4. J. Walshe & Co. (1937) Pty. Ltd., 45 Davey St., Hobart, Tasmania. Murdoch Bros. Pty. Ltd., Market-place, Hobart, Tasmania.

Pitts & Lehman Ltd.—Sole Representa-tives for New South Wales, Queens-land and South Australia.

London, as the financial centre and magnetic power in international money market of the world, exerts a trade. Bills of Exchange in London Authority. Once the low fixed in than they ever were.

of other operations. London is the key port, not only of Great Britain, but also of the Continent, and, by supplying the markets of Europe, is the pivotal force in international trade.

| are the currency of world commerce, about £40,000,000, is met, all porters of produce can make more advantageous financial arrangements than in any other market, as the I number of buyers.

has reduced charges during t eight years by £1,000,00 per although wages are 70 per ce



Cable Address: DAVIS, MELBOURNE.

Code: "ABC," 4th and 5th Editions.

Box, G.P.O. 148

J. DAVIS PTY. LTD., Fruit Merchants 8 WHOLESALE FRUIT MARKET

Consignments solicited. Telephone, F 3232. One Trial Invited.

Best Prices obtained.

Bankers: The National Bank of Australasia, 271 Collins Street, Melbourne

Telegraphic Address: "Listeria," Melbourne.

Codes: Bentley's A.B.C., 5th Edition.

Frivate: Windsor 453

GEO. LISTER PTY, LTD. (Managing Director: J. R. VAIL)

Selected Agents for all Growers' Organisations Throughout the Commonwealth.

Wholesale Fruit Merchants — Licensed Commission Agents — Importers and Exporters.

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Having carried on a successful business for over half a century, our name stands high in the Wholesale Pruit of Australia. Our spacious premises at Melbourne Wholesale Pruit Market are admirably adapted for the conf our large business, and growers are assured that our best efforts are always at their disposal.

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Value and Prompt Returns.
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Exports

have Declined - Pears Increased.

ment of Commerce has issued the following particulars relating to of Apples, Pears and Grapes, for the six months ended June 30th, 1937, together with comparative figures for 1936.

Apple Exports-January to June, 1937.

To the	To the	Other			
United.	Con-	Desti-		Total,	Total,
Kingdom.	tinent.	nations.		1937.	1936.
Cases.	Cases.	Cases.		Cases.	Cases.
 67,193	3,315	26,252		96,760	92,173
 633,744	50,735	33,358		717,837	626,969
 15,148	· · · · · · · · · · · · · · · · · · ·	9,802		24,950	25,984
 224,063	24,251	17,903		266,217	459,738
 422,590	180,433	76,287		679,310	896,563
 2,451,744	250,097	31,858		2,733,699	2,756,297
 3,814,482	508,831	195,460	••.	4,518,773	·
 4,158,549	542,349	156,826		-,	4,857,724

cline in exports to the agdom by 344,067 cases for compared with the 1936 due to the observance by tion to the extent of 33,518 cases.

w boats loaded fruit during | Australian exporters of a voluntary v boats loaded fruit during of June for United King-Continental ports, and the of this trade was reflected pf falling off in the volume for the month. During 155 cases of Apples were all destinations, but durexports totalled 135,950 cases; Manchester, 32,536 cases; Southampton, 69,694 cases.

The volume of trade with European countries in 1937 also shows a reduc-

P	ears	Exp	orts—Januai		.0	June,	1937.	
	To	the	Tothe	0	th	or.		

State	United. Kingdom. Cases.	Con- tinent. Cases.	Destinations. Cases.		Total, 1937. Cases.	Total, 1936. Cases.
N.S. Wales	14,373		14,736		29,109	32,110
Victoria	476,160	2,650	7,768		486,578	416,111
Q'land		ښد وې	ghoront		_	147
S. Aust	50,040	? 1	1,392		51,432	26,628
W. Aust	22,754	6,941	1,416		31,111	45,782
Tasmania	201,127	2,354	2,410		205,891	106,752
Total, 1937	764,454	11,945	27,722		804,121	-
Total, 1936	590,118	14,179	23,233	• •		627,530

The quantity of Pears exported during the month of June was only for the corresponding period of the 19,604 cases, as compared with previous season. Increases of 119,669 cases in the previous month. However, a substantial increase in Pear exports has been made this season, exports to all destinations 2,234 cases in Continental shipments.

The following table summarises the figures relating to the export of Grapes from Australia:-

Destinations.

Exporting State.	United King- dom and & Europe. Cases.	Eastern. Countries. Cases.	Other Des- tinations. Cases.	Total, 1937. Cases.	Total, 1936. Cases.
N.S. Wales Victoria West, Aust Other States .	6,656	18,811 13,357 54,489 668	5,501 40 600 4	24,312 13,397 61,745 1,122	22,784 13,996 50,975 534
Total, 1937	7,106	87,325	6,145	100,576	_
Total, 1936	6,875	75,322	6,092 .		88,289



under Farm Produce Agents Act.

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Queensland, Northern Rivers, No. 18.

Regular Consignments of well Packed and Graded Fruit Realize Best Prices.

It will be seen that Western Australia is by far the largest exporting State, the increase in total exports from Australia being mainly due to the fact that shipments from that State to Eastern countries rose from 43,753 cases in 1936 to 54,489 cases in 1937 in 1937.

The principal Eastern destinations to which Grapes were exported in 1937 are:—India and Ceylon, 33,905 cases (Western Australia 27,626); Straits Settlements, 29,707 cases (N.S. Wales 8,415, West Australia 18,786); Netherlands East Indies, 2570 (West Australia 6,680) 18,786); Netherlands East 9,579 (West Australia 6,680).

A new citrus packing plant has been erected in Ventura County (Calif.) by the Seaboard Lemon Co. at a cost of £35,000.

Ship Your Oranges, Lemons, Grapes to New Zealand

00

All consignments for this market will have careful attention and realise highest prices if sent to

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or Satisfactory Results, Send Your Fruit to

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Prult Seams, nicipal Markets, Sydney. Established 1900.

HE monthly meeting of the executive of the Victorian Fruit cutive of the Victorian Fruit
Marketing Association was held
at the C.T.A., Melbourne on Friday,
July 30, 1937, at 11 a.m. There were
present: Messrs. G. W. Brown (President), A. S. Carne (Vice-Pres.), F.
Moore, E. Russell, S. Brown, H. M.
McLean, G. Douglas, K. Eagle, F.
Cave, W. A. Thiele, C. H. Jost, H.
J. Noonan (Cool Stores Association),
F. N. Robinson (Commonwealth Co-N. Robinson (Commonwealth Coordinating Officer), and the Secretary, R. E. Boardman.

Apologies were received from Messrs. R. Bailey, A. S. Harrison, J. W. Barker, J. J. Tully, H. G. Sprague, W. P. Hutchinson, A. Perry, and F.

Cool Storage Enquiry.
The chairman stated that while the Committee found there was ample cool storage space in metropolitan and country districts for all Victorian perishable commodities needing cool storage there was insufficient cool storage space available for the export trade—meat, butter, eggs, fruit etc. The Committee had signed a report to the Minister recommending the vate enterprise.

VICTORIAN FRUIT MARKETING absolute necessity for the rebuilding association. of the Government Cool Stores, with a capacity of 450,000 cub. ft., which would be smaller than the previous Government Cool Store, but at which store much of the space had been un-

There was a minority report by the representative of the Metropolitan Proprietary Cool Stores Association, in opposition, on the ground of sufficient space being available within the State.

As the terms of reference, however, specifically referred to the export trade, and as obviously country fruit cool stores were not available for butter, etc., the minority report, stated Mr. Brown, was not soundly based. It had also been recommended to the Minister, that the present Committee remain in existence as a Consultative Committee. Consultative Committee.

Mr. Esmond Russell stated he had attended the Cool Storage Enquiry as a representative of the Fruit Ex-porters' Handling Committee. He confirmed the chairman's report. The

Sale of Large Fruit by Count.

The chairman reported that a representative deputation from the industry—Growers' Association and Retailers—had waited on the Minister for Agriculture, pointing out the benefits that would accrue to the growers, distributors and the public from the compulsory sale of large fruits by count instead of by weight. The Minister had replied there was nothing to stop the trade from attending to this matter voluntarily, further, that the deputation did not include the consumers. Report received. It was decided to write to the Women's National League, Country Women's Association, Housewive's Association and Labor Women's Organisation for their endorsement of these proposals. these proposals.

"Port Brisbane" Case.
Mr. H. V. Smith, Batlow Cool
Store's Co-op. wrote stating that
after having won their case, re
faulty carriage of Pears (for £3,213
plus costs), in the Supreme Court and
the Full Court, the Shipping Co.
appealed to the High Court of Australia. However, a compromise had Committee was unanimous, but for appealed to the High Court of Australia. However, a compromise had commodities was needed, whether built by the Government or by pribuilt by the Government or by pribuilt on terrorise.

> PLEASE TAKE NOTE-If you are not one of the fortunate ones, consign your fruit to

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BUY DIRECT, AND SOLICIT TRIAL CONSIGNMENTS.

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Send Sample Consignment and Arrange Prices for Season.

did not affect the value to the did not affect the value to the try of the verdict obtained. settlement left the Batlow proximately £1,000 short of costs, they requested the V.F.M.A.'s contribution of 50 be allowed to stand in full.

The chairman pointed out portance of the Court's decis the fact that this was the fi which had thus been decided tralian Courts.

On the subject of freight, the sentations were successful it ing the cash rebate of 3d. per the first year (instead of defe the first year (instead of defe bate as proposed by ship Under normal conditions the bate should continue. Impro were being sought with re Continental trade. Despite ports re trade agreement with he (Mr. Mills) did not thin yould be any reduction in the would be any reduction in the preferences on Australian fru the subject of printed fruit wrising costs did not justify epense at this stage.

Apple and Pear Council Con Apple and Pear Council Con Letter received from App Pear Council, stating that aft sultation with State Association the President, it had been deei annual conference would be l Sydney in the week commo October 25.

Freight Agreement.

Letter received from Appl Pear Council sending minut emergency executive meeting June 8 re Freight Agreement reports of deputation to O. Sydney, in this connection.

The points included—reduction freight of 3d. (sterling), coming 1938, plus continued rebations. in 1938, plus continued rebatiff shipping conditions of Freight agreement to be on a year basis, scientific efforts to couraged to improve dunnary stowage; desirability of one case for each State; shipow supply arrival dates of vessels give favorable consideration. supplying of prompt details shipped.

Mr. Moore pointed out that ting back until August of the of the 2d. per case was too period. He moved that this item for the agenda paper forthcoming conference of the and Pear Council. Mr. and Pear Council seconded. Carried.

In response to a question re In response to a question re the export bounty, the distance of the export bounty, the de cil had already applied to vernment for a bounty on 1 ports, but that with regard exports and onwards, it was ful if the bounty would be con In view of rising freights el we were fortunate in secur

Report From J. B. Mill The Apple and Pear Council

The Apple and Pear Counce enclosing progress report from the control of the contr the Tasmanian Fremier sent cable opposing the suggestio the extra quantity gone forweven the cost of the freigh have been recovered. Market ditions were disorganised by onation celebrations.

Pakenham Field Day

Mr. Carne notified that a would be held at Mr. J. J. orchard at Pakenham on A —pruning and top working.

The meeting then closed.

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Tasmania: State Fruit Advisory Board. New South Wales: Griffith Producers' Co-op. Co. Ltd. Batlow Packing House Co-op. Soc. Ltd.

es in the Sydney Market.

ingust 5, 1937.

ointed ou ourt's deal

Operations from June 26 to July 25, 1937.

Pearce, Market Representa-ruitgrowers' Federation of

E wintry weather was exenced until the end of June, when the weather has n fine but extremely cold. ussions from these weather were, firstly, a general re-the demand for fruit, which the demand for fruit, which is only now gradually and, secondly, a cessation of most fruits, due to the ty of picking, packing and gethe product from regions. Market values, s, have remained comsteady, the Apple position improving under the inferestrained forwarding mania and a reluctance on the N.S.W. grower to forroduct before values obtain ory level. It is probable arrivals recently from res have been between 5,000 cases per week, while ies have been practically as. between 25,000 and s per week. s per week.

Retailers displayed very Retailers displayed very usiasm to take large quan-branges, supplies of which ilighter than is custom-season of the year.

n the weather has been cold, uits cleared at satisfactory

Undoubtedly the restrained of Apples from Tas. can ed the reason for the steady of Apples from Tas. can ed the reason for the steady f values in the Apple marwas in a very depressed e end of June. At that time ties as Cleo., F.C., Demo., er. and S.P. were practicanted, the only sales made medium and large-sized cks of F.C., S.P. and other mained in the market and prices had to be accepted a clearance. This position, as now changed, and most ancluding S.P., but perhaps small F.C., are now enasonably good demand. roviding they have a good a, are still in good request. The only in small supply, relet Permain are well adouted their season. Del. from nearly finished arrivals now gely Scarlet, Demo., S. the a few of the other variegely Scarlet, Demo., S. th a few of the other varie-

arrivals have been very w shed-stored G.S., Pomme London Pippin, Buncombe coming forward; but we to see the bulk of the cool-3., Dem. and Del. Values 50 see the bulk of the cool-3., Dem. and Del. Values ast mentioned have improv-latterly and there are ex-of larger quantities being the near future.

the near future.

rivals on the Sydney martotalled just under 115,000
the month, an average of week. Prices: Buncombe,
; Cleo., 4/6 to 7/-; Crofton,
; Del., 4/- to 14/-; Del., 4/m., 4/- to 6/6; F. Crab, 2/6
Fanny, 4/- to 7/-; Granny
9/-; Jon., 5/- to 8/-; L. Pino 6/6; P. de Neige, 4/- to
B., 3/6 to 8/6; S. Permain,
; Sturmer, 3/6 to 6/-; Wineo 10/-. Shipping and Exhigher—Domestic, 1/- to

Pears: Values have steadily improved where carrying quality and appearance continued. Packham's appearance continued. Packham's are now becoming scarce and most W. Cole appearing are small sizes. It is probable that larger supplies of these varieties will now arrive from Pear districts in Vic. Prices: B. Bosc, 5/- to 9/-; Gib. Seedling, 6/- to 9/-; Glou Morceau, 6/- to 10/-; Jos., 5/6 to 11/-; Triumph, 7/- to 12/-; W. Cole, 7/- to 12/-; W. Nelis, 6/6 to 10/-. Shipping and Extra Fancy higher—Domestic 1/- to 2/- lower.

Bananas: During the four weeks under review the Sydney market has received the smallest quantity per week for some years. The total quantity was 21,440 trop. cases, but in addition to this quantity, both Newcastle and Broken Hill received their regular quotas each week. Prices:

N.S.W. and Old recognition graded Bananas: During the four weeks N.S.W. and Qld, regulation graded, first quality fruit. Six, Seven and Eight and Nine inch, 19/- to 25/-trop. case. Specially selected country order fruit higher.

Custard Apples: 2,861 cases arrived during the month. Steady demand was received. Prices: 3/- to 5/- half

Citrus Fruits: The absence of the general over-supply of various citrus fruits was particularly noticeable in

relation to Navels and choice large-sized Mandarins. In fact, most ar-rivals of Navels were from the M.I.A., due to the drought conditions last year in the metro, and coastal dis-tricts. Wet weather also interfered due to the drought conditions last year in the metro, and coastal dis-tricts. Wet weather also interfered with deliveries of Lemons from coastal regions.

Grapefruit: At times there was an accumulation of coastal Grapefruit, and the limited operations of procesand the limited operations of processors at 3/6 bush, were welcome. A particular brand of Weeney Grapefruit from Kurrajong has had outstanding value, and many comments have been made at the large variation in the standard operations of the standard operations of processors. tion in prices. The fact remains, how-ever, that the average article produc-ed may sell to 5/-, whereas the Kured may sell to 5/-, whereas the Ad-rajong fruit sells up to 12/-, according to size and quality. Amongst inland arrivals, which have not been heavy, small consignments from Narromine have topped the market; much of the other fruit being too coarse in the skin to appeal to buyers. Prices:—N.S.W. local 1/6 to 5/-, few extra special 12/-; inland 5/- to 8/-, few 10/- and 12/- bush. S.A. 10/- to 12/- bush.

Lemons: A preponderance of ex-tremely small sized fruit appeared at the end of June and beginning of July, when supplies eased considerably, due to wet weather. Latterly the beneficial results of the rain have been demonstrated in improved size, and counts around 150 per bush. have been much more noticeable. Demand, however, has been very weak

Oranges—Navels: There was a slight easing about the middle of July, when the excess supply of counts 56 when the excess supply of counts 56 to 100 caused those sizes to ease. Crates from the M.I.A. have been a feature of the market, the more popular sizes apparently being used for country order business, while the Sydney market received most of the large sizes. Coastal supplies have been light at all times, with Mangrove Mountain fruit probably obtaining the highest value of all fruit appearing from this State. A few S.A. Navels of choice quality came on the market. Prices: N.S.W. Spec. and Stand. Local and Inland 4/6 to 7/6, few higher. Plain grade 3/6 to 6/- bush. Two-bushel crates 9/- to 11/-, few selected counts 12/-. S.A. 10/- to 16/- bush. 16/- bush.

Other Oranges: White Siletta, Joppa and Med. Sweet have at all Joppa and Med. Sweet have at all times received good request, particularly fruit of counts 180 to 216 at around 6/- for retailing at 6d. doz. Prices: White Siletta and Joppa 4/to 6/- bush.

Mandarins: Prices: N.S.W. Spec. and Stand. Local: Emperor, 1/6 to 7/-, few 9/- bush. Inland, 4/- to 7/- bush.

Papaws. Qld., 10/- to 14/- trop.

PRINCIPAL Merchants July Merchants Graf Exporte

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McILWRAITH McEACHARN Ltd. MELBOURNE STEAMSHIP Co. Ltd. HUDDART PARKER LTD.

Passionfruit: Steady values have been received, most sales throughout the month being from 6/- to 10/-. Deliveries appeared from the central north coast in addition to choice fruit from Mangrove Mountain. Prices:

Cleos. 8/6, G.F., Aroms and h 5/- to 8/-.

Pears: Coles and Jose are taining firm rates, the former, to 14/-, and the latter to 13/. Bosc and Packhams to 9/-, we have the same taining firm rates.

from Mangrove Mountain. Prices:
N.S.W. 6/- to 8/-, few special 10/small from 3/- half case.
Pineapples: The total for the month
was 7,840 tropical cases. Values have
depended upon the operations of shippers to a large extent, and, when these were not operating, lower prices were obtained. Prices: Qld. 7/- to 11/-, few higher, tropical case.

Strawberries: Deliveries have increased as the month progressed, the

first week of the month showing 750 trays and 31 crates of boxes, whereas during the last week arrivals totalled 13,037 trays and 185 crates of boxes. Values for this period have been at 3/- to 5/- per tray and 10/- to 14/- or 15/- per doz. boxes.

VICTORIA.

Market Report for July.

JULY was rather a fluctuating month. The severe Winter weather was against any very heavy clearances and it was not until the last week that movement in some the last week that movement in some the last week that movement in some lines could be reported as satisfac-tory. Tomatoes came in from W.A. during the month. The condition was excellent and the bulk arrived green and ripened well after landing. They were reported generally as of better quality than in the past, a change into varieties more acceptable for the Melbourne market is a feature of this

season's supplies.

In the main the early samples are round and smooth in texture, of medium size and sold to normal prices medium size and sold to normal prices with a moderate demand for the season. Queensland Tomatoes came in quantities sufficient for the demand and in good condition. Prices were satisfactory.

Citrus: In Navels the supply was just sufficient to keep the movement steady at satisfactory prices. Mandarin supplies were lighter than at this time last year, but the bulk of

this time last year, but the bulk of the samples were on the small side. Prices for the best lines were good, but rather low for small grades. Lemon supplies were down at the be-ginning of the month and ruling prices were high but dropped during the month with locals cheap and affecting the prices for better grades. Grape-fruit were slow all through, but sup-

fruit were slow all through, but supplies met the demand. Good, large, clean-skinned samples sold well, the smaller samples hanging fire.

Celery: Improved demand lifted prices in the last half. Supplies were about the same as in June. The quality was good and both supplies and prices satisfactory.

Apples: There will be plenty of Apples this season owing to a heavy

Apples this season owing to a heavy

crop. Grannies and Delicious sold well, other varieties moved quietly.

Pears: Good Packhams moved nicely the other varieties were on the slow side.

Pineapples: Early in the Pincapples: Early in the month movements were slow, but improved as the month advanced. Prices started low and supplies equalled demand.

Bananas: With the market short supplied, prices remained relatively high right through the month.

Peas were affected by the frosts, but good samples were in demand at good prices.

Beans: Onespeland and N.C.W.

12/-,
Citrus: Navels 8/- to 10/-,
Navels 7/- to 9/-, Oranges
9/-. Lemons 9/- to 11/-,
(Gayndah) 11/- to 13/-. Ma
Glens 11/- to 13/-, Emperor
12/-, Scarlets 9/- to 11/-.
Tropical Fruits: Custard A

Tropical Fruits: Custard A₁ to 4/-, Smooth Leaf Pines 6 case, Rough Leaf 4/- to 5/Papaws 8/- to 11/- trop. cas anas (at present scarce) 6's 14/-, 7's and 8's 13/- to 16/Papaws 14/-, 8's 13/- to 16/Papaws 14/-, 8's 14/- to 16/Papaws 14/- to 16/P

Passionfruit: Special grade 8/

Strawberries, 6/- to 9/-; 10/- to 13/- per doz. boxes.

Brisbane (20/7/37): Mess and Jesser report as follows the past month the supply has been well maintained, Pears are scarce.

Pears are scarce.
Ruling values are: Jons. 22
8/6 to 9/-, 2\$ 7/6 to 8/-,
Romes and other colored Ap
to 8/-, Cleos 8/-, Sturmers
6/6, F.C. 6/-, G.S. 8/- to 9,
grade 5/- to 6/-. Pears: W
Jose. 12/- to 13/-. W.N. 11/Packhams 10/- to 11/-. (
Navels 7/- to 8/6, Common 7/
Mandarins (scarce): Glens
14/-. Emperors large 11/- t Mandarins (scarce): Glens 14/-, Emperors large 11/- small sizes 7/- to 8/-. Lens to 8/-. Custard Apples, 3/6 per qrt. case. Pineapples, 7/ case. Bananas (very scarce), 20/- case. Tomatoes, 3/6 Celery (South Australia), 11/

WESTERN AUSTRALIA

dumps 4/- to 7/9 (special R.B. 6/- to 8/6 (special to Yates 4/6 to 10/6 (special Yates 4/6 to 10/6 (special to G.S. 5/- to 10/- (special to 11/4/6 to 8/9, Nickajack 5/- to 7 9/- to 12/6 (special to 13/3). Vals., flats 2/6 to 5/-, Navel 3/6 to 8/- (special to 9/-), du to 11/6; Lemons, 2/6 to 5/- to 6/-); Mandarins, 4/- to 9/- to 10/-). Other lines: Pears, 4/- to 9/6 (special to 11/6); I fruit, quarter-dumps, 5/-; To 5/- to 12/- (special to 12/6, from 3/-). from 3/-).

NEW ZEALAND.

Dunedin (9/7/37): Messrs. Central Produce Mart Ltd. refollows:—The market is well s with Apples, consisting pri of Del. and Sturmers with go plies of cooking varieties als

Small shipments of Que Pineapples have been marke Consignments of N.Z. Lem Marmalade Oranges came during the week, and met excellent enquiry.

Owing to the cold weather, Oranges have been slow, and of S. Aust. Navels are still a Supplies of Calif. Lemons "Monterey" are due to arr

week.

Beans: Queensland and N.S.W. supplies were well maintained and a good demand was reported, quality good.

Brisbane (17/7/37): Apples: Choice Jons. are selling freely, best brands of Tas. and Vic. realising 9/- to 10/-, for popular sizes. Other varieties are as follow: Demo. 7/- to 8/-, Sturmers 6/-, F.C. 6/- to 7/-, G.S. 9/-, week.

Prices (per case): Oranges Val. 40/-, Aust. Navel Orange to 22/-, Cal. Lemons 80/-, Gr 40/-, Fines 22/-, Pines 25/-. Peat 8/- to 10/6, W.N. 8/- to 10/6 ing Pears 7/-. Apples: Del. 9/-, Jons. 6/- to 8/6, Sturmer 9/-, G.S. 8/- to 10/-, Cleo. 6/- small and inferior grade Apples 2/9 to 3/6, Cookers 4/- N.Z. Lemons to 32/-. For popular sizes. Other varieties are as follow: Demo. 7/- to 8/-, Sturmers 6/-, F.C. 6/- to 7/-, G.S. 9/-, Sturmers 8/-, Stur

ra e with China

Ba ce Favors Australia.

hina's imports were valued to a roximately £70,000,000, and ports at £53,000,000. The toportion of trade is done at the receipts in northern been largely reduced by ing system that has grown years. Of her imports, 13 expresented foods, 10 per materials and 55 per cent. The receipts of the receipts in the represented foods, 10 per materials and 55 per cent. The receipts what does Australia supply the receipts of the receipts when the receipts are receipts when the receipts were from Australia.

orts from Australia.

orts from Australia.
Australia supplied to China he value of £3,587,870, re-14.03 per cent. of China's tts. The greatest proporfor Australian wheat, but supplied 97,865 railway or China's extensive railway programme. Sandal-wood om Australia fell nearly 20 in 1936 to £83,510. £94,867 worth of canned t from Australia to China largest proportion repreter and milk. Canned fruits ed at only £8,210. Reports this commodity finds a difcompeting with cheaper les and with local stone and in the same supplied to the s

xports to Australia.

rly £449,743 worth of exaustralia, representing 0.86 of China's export trade, it in that the balance of trade in favor of the Commonaut exports increased by se of 1935. Linseed represa's largest item to Austra-1936 was valued at £152,075 se over 1935 by nearly 300 Other important exports v silk £34,063, manufactured 45, lace and trimmings tung oil £43,513, walnuts cotton £17,443, and tea

ANIA'S INTERSTATE SALES.

inland consumes over a mil-ls of Tasmanian Apples per during the past five years ted 74 million bushels, as the gradual drop in yearly he following table is quot-

			Bushels.
ne	mainland	took	1,891,539
	33	22	1,422,909
	,,	2.9	1,488,567
	77	17	1 220 570

1,063,987

7,256,581

SMANIAN APPLES.

ver 100,000 Cases by Frosts Reported.

, 27/7/37.

thave been received by the Sydney that frosts in Tasring July severely damaged as which were at the time ses unpicked. Sturmers were fly affected and the crop a estimated at over 100,000

RM INSPECTION LEVY.

deral Parliament has passed Bill for the collecting of the tion levy on Apples and corted from Australia to all ins; previously the levy was only on Apples for U.K. and

Fruit by Count

Deputation to Minister

ister of Agriculture (Mr. Hogan), on July 14 to urge that steps be taken to make the selling of Apples, Pears and other large fruits by count compulsory.

The depute the selling of the s

REPRESENTATIVES of the fruit industry waited upon the Minister of Agriculture (Mr. Hogan), on July 14 to urge that steps be taken to make the selling of Apples, Pears and other large fruits by count compulsory.

The deputation was introduced by Mr. J. G. B. McDonald, M.L.A., who also represented the Northern Fruit conable the retailer to know the quantum of the compulsory.

The deputation was introduced by Mr. J. G. B. McDonald, M.L.A., who also represented the Northern Fruit Growers' Association, who supported the request. He pointed out that the selling of large fruits by count would be welcomed by the industry and would result in the public getting better quality of fruit in quantities that would better meet its requirements and would effect an increase in local consumption.

Mr. G. Brown, President of the Victorian Fruit Marketing Association supported the proposal and said that it would enable both the retailer and the consumer to have more confidence in the product which they were buying. It would also help to remove certain abuses that at present exist,

she would welcome the general application of count to large fruits.

The Minister stated that at present the Cabinet was not satisfied that it would be in the interests of the public to sell all large fruits by count. He believed that the fruit interests should first educate the public to this form of buying. He stated that he still had an open mind upon the subject and would place the matter before the Cabinet for consideration.

LIST OF EXPORTERS.

Revised List Being Prepared.

Exporters of produce who desire to have their names included in the revised "list of exporters" being prerevised "list of exporters" being prepared by the Department of Agriculture are asked to forward particulars of the class of business handled, the name and address of their agents in the United Kingdom, and their Victorian cable address to the Director, Department of Agriculture, Melbourne, C.2. The list is being prepared for use here and by the office of the Victorian Agent-General in London. Exporters whose names appeared in the old list are asked to appeared in the old list are asked to forward particulars as to changes of address and London agents.

REILLY'S

(Established 35 Years)
Invite Correspondence in regard

Orange Shipments

FROM NEW SOUTH WALES & VICTORIA THIS SEASON.

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A recent number of "Barrel and Box and Packages" states that, primarily, containers must meet the following requirements:—

following requirements:—

The container must have the ability to retain its contents through all the various stages of transportation. The materials out of which the container is constructed must not only be strong enough to resist splitting or tearing open, but must also be properly assembled and closed so that covers will not loosen and come off. and come off.

The container, together with its in-The container, together with its interior packing, must have the ability to protect its contents from outside forces in storage, the vibrating encountered in moving freight cars and trucks, and the most severe forces of all, the starting and stopping of the vehicle in the course of its journey.

The container, and, of course, its journey.

The container, and, of course, its interior packing, must possess the ability to protect its contents from the shocks and jars incident to hand-

Shipping Containers

How Good Must They Be?

A recent number of "Barrel and Box and Packages" states that, primarily, containers must meet the following remarks are sent down gravity chutes, are roughly stowed or stacked, or are inadvertently dropped or toppled over.

The serviceability of the container must not be adversely affected by contact with water or from moisture

vapor in the surrounding air.

vapor in the surrounding air.

The container should be of such size, shape and gross weight as to be easily handled, stowed and braced. To facilitate handling, the weight of the contents should be distributed as evenly as possible within the container, and containers should be provided with adequate hand holds wherever possible.

The cost and the tare weight of the container should be as low as possible, consistent with its proper construction and the efficient protection of its contents as outlined in the above points.

SPECIAL NOTICE TO FRUITGROWERS

All Members under Fidelity Bond In response to numerous requests from growers for information as to who are members of the

Wholesale Fruit Merchants' Association of Victoria the following list is given. All are members of the above Association, and are registered firms carrying on business in the

W. A. WATKINS (5)

WHOLESALE FRUIT MARKET, MELBOURNE.

STAND NUMBERS ARE AS INDICATED IN PARENTHESES.

T. STOTT & SONS (26). H. L. E. LOVETT & CO. (23).

H. L. E. LUVETT & CO. (25).

A. E. PITT (14).
J. DAVIS PTY. LTD. (8).
W. S. TONG (31).
SILK BROS. PTY. LTD. (24-25).
J. G. MUMFORD (35).
GOLDEN VALLEY FRUIT CO. PTY. LTD. (15).

J. W. ROSS (13).
H. M. WADE & CO. (21).
DAVID SMITH PTY. LTD. (3).
SILBERT, SHARP & DAVIES PTY. LTD. (17)

P. A. PATRIKEOS (36). G. WOOLF & SONS (29-30). R. CORNISH & SONS (5). J. HYMAN & SON (51).
HERBERT WILSON PTY, LTD. (10).
FRANK BOOTH & SONS PTY, LTD. (16).
GEO. LISTER PTY, LTD. (12). TIM YOUNG & CO. PTY. LTD. (18).
F. W. VEAR PTY. LTD. (28).
YEE HOP LOONG & CO. (32).
H. LOUEY PANG & CO. PTY. LTD. (4). WING YOUNG & CO. (38).

Office: 21 Wholesale Fruit Market,

Queen Street, Melbourne. Phone F 4866.

Correspondence is invited by the Association.

d and Published by the Horticultural Press Pty. Ltd., 78a Victoria Street, Melbourne. Phones: F 2656, F 2657; and at 439 Kent Street, Sydney.

WITH a view to obviating troubles caused by budding in late Summer with consequent damage by caterpillars of the Peach tip moth or by gum exuding from cuts made when budding, Mr. R. B. Thomas, Fruit Inspector, writing in the "N.S.W. Agricultural Gazette," advises budding Peach trees in the Spring or early Summer, in order to start growth as early as possible. In preparing the trees for budding, he says, if the main limbs are too large, they should be cut back to suitable places at the end of Winter before they commence to shoot. Avoid large saw cuts which rarely grow over, and provide a favorable place for wood rot or blight organisms. The most suitable shoots than are sufficient to form the new framework to allow for loss through wind or otherinches. This will assist them to with-

Reworking Peach Trees

Early Budding

Recommended

WITH a view to obviating troubles caused by budding in late Summer with consequent damage by caterpillars of the quent damage by caterpillars of the great damage damage

and when the bark will st they should be budded, le wood in the bud. When the buds have un

when the buds have ut ties should be removed and t above the inserted buds cu within about 3 inches of th buds. The new shoots tha buds. The new shoots the from the buds should be pin after they have grown about and any unnecessary shoots velop from the stock tree

Orchard Windbr

Height in Relation to the Protected.

THE question of whether belts of timber are des windbreaks for orchavexed one. There is no doub writer of the N.S.W. Depart Agriculture, that to obtain mum results from fruit transcessary that they should quately protected from wind many localities, this can only vided in a practical way by timber. timber.

The greatest objection to the of protection is that the trees ing the windbreak extend thein a lateral direction for a coable distance, and either a wide must be left between the win and the nearest orchard trees, latter will suffer from the coation of the windbreak trees.

If only a boundary breakweres is required the space refor the breakwind is not of suportance, but on some sites me.

portance, but on some sites in termediate breaks are required satisfactory protection from with the proportion of area then the by timber breakwinds may be ous problem.

ous problem.

What Californian Experim Show.

In "Citrus Leaves," May, I account is given by Harold W. Farm Adviser, Orange Count fornia, U.S.A., of a five-year gation on orchard windbreaks out by the Agricultural Extens vice in Orange County. A many other aspects the relatween the height of the windbreaks actual measurements taken the recent survey showed a

the recent survey showed a tion between height of breaky area of complete and partial tion. The higher the trees, the

er the number of rows influen
The following chart washown:—

	Complete	Partia
	protection.	protecti
Height .	In ft. from	In ft. fr
of tree.	breakwind.	breakw
feet.	feet.	feet.
35-69	152	295
70-89	189	393
90-115	238	441
Average	193	376

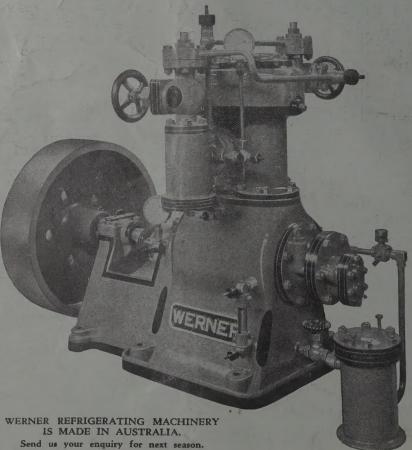
break 70 to 89 feet in heigh give partial protection to a of 393 feet. That is to say, a mediate breakwind would be n about every seventeen rows. must be borne in mind that wind trees of this height wo preciably rob trees for at I feet on each side, and ever mediate breakwind would a mean the loss of three rows of

Arguments could be put that windbreaks at the bot part-way up a slope would be to check air drainage. But a standing this, many growers experience in hilly or uncountry state that parts of the chard shielded by efficient breached frost damage when the escaped frost damage when posed parts suffered severely

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S.A.: W. J. WHITE,
3 Trevelyn Street, Wayville 99 Kippax St., Sydney.

ATKINS (W.A.) LTD, 894 Hay Street.